

EPA Jacket 9468-46

Material Sent for Data Extraction

Reg # 9468-46

Description: New Product

☒ Material(s) Sent to Data Extraction Contractors:

☒ New Stamped Label Dated 7/5/12

☐ Notification Dated _____

☒ New CSF(s) Dated 2/28/12

☐ Other: _____

☒ Decision #: 462495

☐ Other Action/Comments: _____

Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer: Beth Benbow

Phone: 347-8072 Division: RD

Date: 7-10-12



**U.S. ENVIRONMENTAL PROTECTION
AGENCY**

**Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460**

EPA Reg. Number:

9468-46

Date of Issuance:

JUL - 5 2012

NOTICE OF PESTICIDE:

☒ **Registration**
☐ **Reregistration**
(under FIFRA, as amended)

Term of Issuance: **unconditional**

Name of Pesticide Product:

DICTATOR

Name and Address of Registrant (include ZIP Code):

**Ritter Chemical, LLC
c/o Pyxis Regulatory Consulting, Inc.
4110 136th St. NW
Gig Harbor, WA 98332**

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

The basic formulation (dated 02/28/2012) is acceptable and will be added to your file.

This product is registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following label revision(s):
 - a. Revise "EPA Reg. No. 9468-__" to "EPA Reg. No. 9468-46."
 - b. Assure that the EPA establishment number and net contents are also added to the final printed label.
3. Within one year of the date on this registration notice, the Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies must be submitted. They must be conducted in the commercial containers of this product and observations should be made at 0, 3, 6, 9, and 12 month intervals.
4. Per 40 CFR 156.10(6), submit one copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact Beth Benbow of my staff at benbow.bethany@epa.gov.

Signature of Approving Official:

Kathryn V. Montague
Project Manager 23
Herbicide Branch
Registration Division (7505P)

Date:

JUL - 5 2012

DICTATOR

FOR WEED CONTROL IN CORN, SORGHUM, SMALL GRAINS (WHEAT, BARLEY AND OATS NOT UNDERSEED TO LEGUMES), PASTURE, HAY, RANGELAND, FARMSTEAD (NON-CROPLAND), FALLOW, SUGARCANE, ASPRAGUS, TURF AND GRASS SEED CROPS.

ACTIVE INGREDIENT:

Dimethylamine Salt of Dicamba (3,6-dichloro-o-anisic acid)*..... 48.2%

OTHER INGREDIENTS:..... 51.8%

TOTAL:..... 100.0%

*This product contains 40.0% 3,6-dichloro-o-anisic acid (Dicamba) or 4 pounds per gallon (480 g/L)

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
If in eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information center (NPIC), at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific time or your poison control center at 1-800-222-1222.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION / PRECAUCION

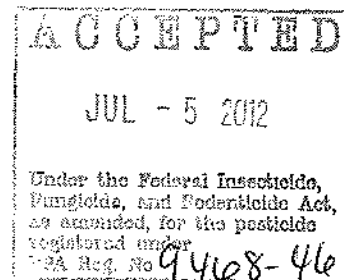
Causes moderate eye irritation. Avoid contact with eyes or clothing

EPA Reg. No. 9468-_____

EPA Est. No. _____

Manufactured for:
Ritter Chemical, LLC
P. O. Box 430974
Houston, TX 77243

Net Contents: _____



PERSONAL PROTECTIVE EQUIPMENT (PPE)

All Mixers, loaders applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks and
- Chemical resistant gloves (except for applicators using ground boom equipment, pilots and flaggers)

See Engineering Controls for additional requirements and exceptions.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Pilots must use cockpits in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)].

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing / PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
- Wash the outside of gloves before removing
- As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Apply this product only as directed on the label.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

The following PPE is required for early entry into treated areas that is permitted under the Worker

Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water

- Coveralls over short sleeved shirt and short pants
- Chemical-resistant gloves made of any waterproof material
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear if overhead exposure
- Protective eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses..

Do not enter or allow others to enter until sprays have dried.

All directions and precautions on the product labeling (container and package) should be read before applying Dictator (dicamba). Failure to do so could result in illegal residues, crop injury or unsatisfactory weed control.

PRODUCT INFORMATION

Mixing and Application

Dictator is a water-soluble herbicide that can be diluted and applied in water or a sprayable fluid fertilizer carrier. The user should carry out a compatibility test prior to tank mixing when using a fluid fertilizer carrier.

The following mixing and application directions apply to all uses of this product (crop and non-crop), unless otherwise specified in the individual use headings found on the label. Individual use sections provide additional restrictions and precautions specific to the crop or use, as well as application rates and timing specific to the individual uses.

Applicator can use ground or aerial application equipment with Dictator, as long as application equipment gives good spray coverage of weed foliage. HOWEVER, AERIAL APPLICATION EQUIPMENT SHOULD NOT BE USED IF TEMPERATURE INVERSIONS EXIST OR WIND CAN CARRY SPRAY PARTICLES INTO AREAS WHERE SENSITIVE PLANTS OR CROPS ARE GROWING.

Application equipment should be calibrated for coarse spray, and nozzles that are designed to produce minimal amounts of fine spray particles should be selected. For good weed coverage, application should be made with nozzles as close as practically possible to the weeds. Application should not be made when wind speed is greater than 15 mph or during periods of gusty wind, to avoid uneven spray coverage. Treated areas should remain undisturbed (i.e., avoid cultivation or moving) for at least 7 days following application.

- Ground Application: Apply 3 to 50 gallons of diluted spray per treated acre
- Aerial Application: Apply 1 to 10 gallons of diluted spray per treated acre
- Aerial Application, Preharvest Uses: Apply 2 to 20 gallons of diluted spray per treated acre

If vegetation is dense or tall, higher specified amount of spray volume should be used.

Important:

- Do not apply more than the maximum rate of 1 lb. Dictator a.i. per acre per application.
- Do not make more than 2 applications of Dictator per year.
- Dictator cannot be applied through any type of irrigation system.

- Dictator cannot be used to treat irrigation ditches or water used for domestic uses or crop irrigation.

Best Stewardship Practices

When properly applied, Dictator provides effective control of broadleaf weeds and brush. Utilizing best stewardship practices in all aspects of Dictator use (including application operations, mixing and loading) will minimize off-target movement and protect surface and ground waters as well as maximize weed control.

As a result of agricultural use, Dictator (dicamba), under certain conditions, is known to leach through soil into groundwater. Groundwater contamination may result if Dictator is used in areas where soils are permeable, particularly where the water table is shallow.

Ground and Surface Waters Protection

1) Point Source Contamination

- Do not mix or load Dictator within 50 feet of wells (including drainage wells and abandoned wells), perennial or intermittent streams and rivers, sink holes, and natural or impounded lakes and reservoirs, to prevent point source pollution.
- Do not make application of Dictator within 50 feet of wells. Exceptions to this setback:
 - Impervious pad or properly diked mixing/loading areas (see description, below)
 - Properly plugged or capped abandoned wells
- Operations performed with Dictator within 50 feet of a well (mixing, loading, rinsing washing) are only allowed if conducted on an impervious pad. Impervious pad must:
 - Be constructed to withstand heaviest load on or moving across pad
 - Be self-contained, so that surface water flow over or from the pad is prevented
 - Have a volume capacity of 110% of largest pesticide or application container used on the pad
 - Have a capacity to contain all product spills as well as vehicles or equipment delivering pesticides to mixing/loading site
- Additional requirements regarding wellhead setbacks and operational containment may be in effect in your state.
- Antisiphoning devices or check valves must be used on all mixing equipment, and care must be taken when using Dictator to prevent spills, back siphoning into wells or improper disposal of excess pesticide, spray mixtures or rinsates.

2) Movement by water erosion of treated soil

- Dictator is not to be applied or incorporated through any type of irrigation equipment (including flood or furrow irrigation).
- Before using tailwater for subsequent irrigation of other fields, ensure that treated areas have received at least one half inch rainfall (or irrigation).

3) Movement by surface runoff or through soil.

- Dictator is not to be applied under conditions that favor runoff.
- In areas with high potential for groundwater contamination, Dictator is not to be applied to paved or highly compacted surfaces or other impervious substrates.
- Where groundwater depth is shallow, Dictator is not to be applied to sandy soils with less than 3% organic matter (in areas where groundwater is near the surface, and soils are permeable or coarse, groundwater contamination may occur).
- Application rate recommendations as affected by soil type (in individual use headings sections) should be carefully followed to minimize the possibility of groundwater contamination.

Sensitive Crop Precaution

When Dictator contacts roots and stems of sensitive or desirable foliage, desirable trees and plants (particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants) can sustain injury. Plants are particularly susceptible to injury during their growth stage. Follow the precautions below to minimize damage to desirable or sensitive plants:

- Coarse sprays should be used to avoid potential herbicide drift. Nozzles (such as Delevan Raindrops; Spraying Systems XR flat fans; D10, TK10 or larger capacity flood nozzles) designed to produce minimal amounts of fine spray particles should be selected. Consult with spray nozzle supplier regarding possible choices of drift reducing nozzles. Unless otherwise specified/required by manufacturer of spray nozzles, spray volume should be at or above 20 gpa and spray pressure should be at or below 20 psi.
- Application of Dictator should be avoided if temperature inversions exist or if air currents can carry spray particles to areas where sensitive plants or crops are growing. If wind speed is greater than 5 mph and is moving in the direction of adjacent sensitive crops, or if wind is gusty, do not spray near sensitive plants. An adequate buffer zone should be maintained between sensitive plants and areas to be treated.
- If surface washing or possible downward movement in to the soil may cause Dictator to contact roots of desirable plants (such as trees and shrubs), do not treat in these areas.
- Drift reducing additives (agriculturally approved) may be used to mitigate drift.
- If temperature on the day of application is expected to exceed 85°F, do not apply Dictator adjacent to sensitive crops, as drift is more likely to occur.
- Equipment used to apply Dictator should be thoroughly cleaned (see PROCEDURE FOR CLEANING SPRAY EQUIPMENT) before reusing to apply other chemicals, to avoid injury to desirable plants.

If normal harvest of treated crops has occurred, there are no crop rotation restrictions.

All agricultural (crop) uses of Dictator are designed for a regular growing interval between planting and harvest. Do not follow up with planting a sensitive crop if interval is shortened (f. ex., cover crops that will be plowed under). Crops under stress (such as drought, seedling disease, high soil pH or salt content, foliar damage due to insects, wind or hail) can display injury symptoms that can be more noticeable upon application of herbicides.

Local and state authorities should be consulted for advice concerning application of Dictator, any special local use situations, and any possible application restrictions. Tank mixes (including those recommended in individual use sections of this label) can only be used in states where tank mix partners and application sites are registered.

Band Treatments.

When Dictator is applied as a band treatment, the following formulas should be used to calculate the correct rate and volume per acre:

$$\text{Band RATE} \quad \text{Per treated area} = \text{Broadcast RATE} \quad \text{per treated acre} \times \left(\frac{\text{Band width} \quad \text{in inches}}{\text{Row width} \quad \text{in inches}} \right)$$

$$\text{Band VOLUME} \quad \text{Per treated area} = \text{Broadcast VOLUME} \quad \text{per treated acre} \times \left(\frac{\text{Band width} \quad \text{in inches}}{\text{Row width} \quad \text{in inches}} \right)$$

Compatibility Test

The compatibility of mixtures should be tested before mixing in a spray tank, by combining all components in proportionate quantities in a small container.

When diluting herbicide in a spray carrier, or mixing multiple herbicides in a tank mix, assuming a spray volume of 25 gallons per acre, mix 1 ½ level teaspoons of a dry herbicide formulation (assuming a 1 lb. per acre rate) or ½ level teaspoon of a liquid herbicide formulation (assuming a 1 pint per acre rate) in one pint of spray mix. [NOTE: adjust rate of herbicide formulation accordingly if specified rate per acre is lower or higher than indicated]

Spray mix is compatible if herbicides do not ball up, form precipitates (such as flakes or sludge), gel, or form oily films or layers. Incompatibility will typically occur within 5 minutes of blending.

If spray mix is incompatible, a compatibility agent is recommended. Assuming a mixing rate for the compatibility agent of 2 pints per 100 gallons of fluid fertilizer or spray mix, add ¼ teaspoon of compatibility agent to the herbicide and spray solution [NOTE: adjust level of compatibility agent accordingly if specified amount is higher or lower than 2 pints per 100 gallons spray mix].

Cleaning Spray Equipment

These steps are recommended for thoroughly cleaning spray equipment after applications of herbicides

- 1) Fill spray tank half full with water, while thoroughly hosing down the inside and outside surfaces of equipment. Operate sprayer until all rinse water has been purged from the system.
- 2) To the spray tank, add household ammonia (at the rate 1 quart of ammonia for every 25 gallons of water), and fill tank with water. Circulate ammonia solution through the sprayer system for 15 - 20 minutes by operating the sprayer system's pump. To clean the nozzles and boom, a small amount of the ammonia solution should be discharged. Once ammonia has circulated through the spray system, solution should be allowed to stand for several hours, preferably overnight.
- 3) Ammonia solution should be flushed from the spray tank through the boom.
- 4) Nozzles and screens should be removed, and system should be flushed with two full tanks of water.

If this product has been tank mixed with water-dispersible formulations (such as emulsifiable concentrates (EC), wettable powders (WP), etc.), use the steps below for cleaning the spray equipment (as tank mixes with water dispersible formulations require the use of a water/detergent rinse)

- 5) Complete Step 1, above.
- 6) To the spray tank, add detergent (at the rate of 2 lbs. detergent for every 40 gallons of water), and fill tank with water. Circulate detergent solution through the sprayer system for 5 to 10 minutes by operating the sprayer system's pump. To clean nozzles and boom, a small amount of the detergent solution should be discharged. Once detergent has circulated through the spray system, solution should be allowed to stand for several hours, preferably overnight.
- 7) Detergent solution should be flushed from the spray tank through the boom.
- 8) Repeat step 1, above and follow with a complete ammonia rinse (steps 2, 3 and 4, above).

WEED LIST

The weeds listed below may be treated with Dictator. Follow label directions, rates, timings and recommendations under specific crop sections of this label. Growth suppression or control of broadleaf (annual, biennial and perennial) weeds and brush (woody) and vine species.

BROADLEAF WEED LIST

*Alfalfa ³
Amaranth, spiny (Spiny Pigweed) ¹
Artichoke, Jerusalem ³
Aster, slender ¹
Aster, spiny and whiteheath ³
Bedstraw ¹
Bedstraw, smooth ³
Beggarweed, Florida ¹
Bindweed, field, hedge and Texas ³
Broomweed, common ¹
Buckwheat, wild ¹
Buffalobur ¹
Burcucumber ¹
Burdock, common ²
*Bursage (Bur ragweed, lakeweed, Povertyweed) and woolyleaf (Lakeweed) ³
Buttercup, roughseed ¹
Buttercup, tall ³
Campion, bladder ³
Carpetweed ¹
Carrot, wild (Queen Anne's lace) ²
Catchfly, nightflowering ¹
Chamomile, corn ¹
Chickweed, common ¹
Chickweed (Mouseear, Canada) and field ³
Chicory ³
Clovers (annual) ¹
*Clover, hop ³
Cockle, corn and cow ¹
Cockle, white ²
Cocklebur, common ¹
Croton, tropic and wooly ¹
Croton, wooly ¹
Daisy, English ¹
*Dandelion, common ³

*Dock, broadleaf (Bitterdock) and curly ³
Dogbane, hemp ³
*Dogfennel (Cypressweed) ³
Evening primrose, common ²
Evening primrose, cutleaf ¹
Fern, bracken ³
Fleabane, annual ¹
Garlic, wild ³
Geranium, Carolina ²
Goldenrod, Canada and Missouri ³
Goldenweed, common ³
Goosefoot, nettleleaf ¹
Gromwell ²
Hawkweed ³
Henbane, black ³
Henbit ¹
Horsenettle, Carolina ³
Ironweed ³
Jimsonweed ¹
Knapweed, black and Russian ³
Knapweed, diffuse and spotted ²
Knotweed ¹
Kochia ¹
Ladysthumb ¹
Lambsquarters, common and triazine resistant ¹
Lettuce, prickly ¹
Mallow, common and venice ¹
Mallow, dwarf ²
Mare's tail (Horseweed) ¹
Mayweed ¹
Milkweed, climbing, common, honeyvine and western whorled ³
Morningglory, ivyleaf and tall ¹
Mustard, tansy and wild ¹
Mustard (Yellowtops) ¹

Nettle, stinging ³
Nightshade, black ¹
Nightshade, silverleaf (White horsenettle) ³
Onion, wild ³
Pennycress, field (Fanweed, Frenchweed, Stinkweed) ¹
Pepperweed, Virginia (Peppergrass) ¹
Pigweed, prostrate, redroot (Carelessweed), rough, smooth, tumble and triazine resistant ¹
Poorjoe ¹
Plantain, bracted ²
*Plantain, broadleaf ³
Plantain, buckthorn ³
Pokeweed ³
Puncturevine ¹
Purslane, common ¹
Pusley, Florida ¹
Radish, wild ¹
Ragweed, common, giant (Buffaloweed), and lance-leaf ¹
Ragweed, western ³
Ragwort, tansy ²
Redvine ³
Sericia lespedeza ³
Sesbania, hemp ¹
Shepherdspurse ¹
Sticklepod ¹
Sida, prickly (Teaweed) ¹
Smartweed, green and Pennsylvania ¹
Smartweed, swamp ³
Snakeweed, broom ³
Sneezeweed, bitter ¹
*Sorrel, red (Sheepsorrel) ³
Sowthistle ³
Sowthistle, annual and spiny ¹
Sowthistle, perennial ³

Spikeweed, common ¹
Spurge, leafy ³
Spurge, prostrate ¹
Spurry, corn ¹
Starbur, bristly ¹
Stumpweed, rough ¹
Sundrop, halfshrub (Evening primrose) ³
Sunflower, common (wild) and volunteer ¹
Sweetclover ²

Teasel ²
Thistle, bull, milk, musk and plumeless ²
Thistle, Canada ³
Thistle, Russian ¹
Toadflex, Dalmation ³
Tropical soda apple ³
Trumpet creeper (Buckvine) ³
Velvetleaf ¹
Vetch ³
Waterhemlock ³

Waterhemp ¹
Waterprimrose, creeping ³
Waterprimrose, winged ¹
*Woodsorrel, creeping and creeping common yellow ³
Wormwood, annual ¹
Wormwood common and Louisiana ³
*Yankee weed ³
Yarrow, common ³

¹Annual

²Biennial

³Perennial

*May be controlled at rates lower than those listed for other perennial weeds in specific crop sections of this label

Dictator gives control of the following woody brush and vine species:

Alder, Ash, Aspen, Basswood, Beech, Birch, Black Locust Cherry, Chinquapin, Cottonwood, Cucumbertree, Eastern persimmon, Elm, Fringe sagebrush, Grape, Hemlock, Hickory, Honeylocust, Honeysuckle, Hornbeam, Huckleberry, Huisache, Kudzu, Maple, Mesquite, Oak, Pine, Poison ivy, Poison Oak, Poplar, Rabbitbrush, Russian olive, Sassafras, Serviceberry, Spicebush, Spruce, Sumac, Sycamore, Tarbush, Willow, Witchhazel

Dictator will give growth suppression of the following woody brush and vine species:

Blackberry, Blackgum, Cedar, Creosotebush, Dewberry, Dogwood, Eastern Redcedar, Hawthorn (Thornapple), McCartney rose, Multiflora rose, Sand plum (wild plum), Sweetgum, Yaupon, Yucca

INDIVIDUAL USE DIRECTIONS

ASPARAGUS FOR USE ONLY IN THE STATES OF CALIFORNIA, OREGON AND WASHINGTON

Dictator is effective against emerged and actively growing weeds. Application rate is ½ to 1 pint Dictator (1/4 to ½ lb. a.i.) per treated acre, diluted in 40 to 60 gallons of water. Application should be made immediately after cutting the field, and at least 24 hours before the next cutting.

Dictator will control black mustard, redroot pigweed (Carelessweed), sowthistle (annual) and thistle (Canadian and Russian). Additionally, at the higher, 1 pint per acre rate, Dictator will control common chickweed, field bindweed, milk thistle, nettleleaf goosefoot and wild radish. Tank mixing Dictator with 2,4-D or glyphosate will improve control of Canadian thistle and field bindweed.

Important:

- Pre harvest interval for asparagus is 24 hours.
- For multiple/repeat applications, do not apply more than 1 pint of Dictator per treated acre per crop year.
- Do not use in the Coachella Valley of California.
- Crooking (twisting) of some spears may occur if spray contact emerged spears. Spears affected with crooking should be discarded.

- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners
- Follow mixing and application instructions and precautions on this label

FIELD, SEED*, POPCORN* AND SILAGE CORN

In corn, Dictator controls many annual broadleaf weeds and suppresses growth of many perennial broadleaf weeds (see Weed list).

Dictator is not registered for use on sweet corn.

*To avoid potential injury of sensitive varieties, do not apply Dictator to popcorn or seed corn unless you have verified with your supplier or local seed corn company the selectivity of Dictator on your variety or inbred line of popcorn.

Application of Dictator when weeds have emerged and are actively growing gives best performance.

See following sections for specific rate information regarding Dictator alone and with tank mix partners.

PREPLANT/PREEMERGENCE IN NO-TILLAGE CORN

Dictator can be applied to emerged and actively growing broadleaf weeds before, during or after planting. Apply 1 pint Dictator per treated acre to medium or fine textured soils containing 2% or greater organic matter. On coarse textured soils (sand, sandy loam, loamy sand) or on medium and fine textured soils with less than 2% organic matter, use ½ pint Dictator per treated acre.

Dictator should be applied after 4 to 6 inches of regrowth has occurred when planting into a legume sod (e.g., clover or alfalfa).

PREEMERGENCE IN CONVENTIONAL OR REDUCED TILLAGE CORN

Apply Dictator after planting but before corn emerges.

Apply 1 pint Dictator per treated acre to medium or fine textured soils containing 2% or greater organic matter. **DO NOT** apply on coarse textured soils (sand, sandy loam, loamy sand) until after crop emergence. (Early Postemergence).

When Dictator is applied preemergence, it does not require mechanical incorporation to become active; however if application is not followed by adequate rainfall or sprinkler irrigation, a shallow mechanical incorporation is recommended. Use of tillage equipment which concentrates treated soil over the seed furrow (e.g., drags, harrows) should be avoided.

EARLY POSTEMERGENCE (All Tillage Systems) (Spike Through 8 inch Tall Corn)

Apply Dictator at 1 pint per acre between emergence of corn up to 5 leaf stage, or 8 inches in height, whichever comes first.

Application rate of Dictator early postemergent on coarse textured soils (sand, sandy loam, loamy sand) should be reduced to ½ pint per treated acre.

If 6th true leaf is emerging from whorl or corn is greater than 8 inches tall, follow directions for Late Postemergence application.

LATE POSTEMERGENCE (All Tillage Systems) (8 to 36 inch Tall Corn)

Apply Dictator at ½ pint per treated acre 15 days before tassel emergence, or to corn that is between 8 and 36 inches tall, whichever comes first.

Make applications to weeds less than 3 inches tall, for best performance.

Use a directed spray application when sensitive crops are growing nearby, if corn leaves prevent proper

spray coverage, or if Dictator is tank mixed with a 2,4-D product.

Dictator should not be applied if soybeans are growing nearby when corn is taller than 24 inches, if soybeans are taller than 10 inches and/or soybeans have begun to bloom.

Overlay (Sequential) Treatments

Dictator can be applied to ground that has undergone prior treatment with a herbicide containing one or more of the following pesticide active ingredients registered for use on corn: Acetochlor, alachlor, atrazine, butylate, clopyralid, dimethenamid, diglicolamine salt of dicamba (Clarity), eptam (EPTC, or s-ethyl dipropylthiocarbamate), flumetsulam, glyphosate, halosulfuron, metolachlor, paraquat, pendimethalin, potassium salt of dicamba, propachlor, simazine, s-metolachlor

Apply Dictator at ½ pint per treated acre to ground that has undergone prior treatment with full rates of products containing diglicolamine or potassium salts of dicamba. Two weeks should elapse between applications.

Read and follow label directions for products containing any of the above listed active ingredients.

Tank Mix Treatments for Corn

This product may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Nicosulfuron

Early Postemergent or Late Postemergent (All Tillage Systems): ½ - 1 oz. a.i./A

- With corn taller than 8 inches, drop pipes should be used to direct spray beneath corn leaves, to reduce risk of injury to corn, and to improve spray coverage of weeds.
- Application to emerged weeds can be made to corn up to 2 feet tall.
- 0.25% (v/v) of a nonionic surfactant can be used with this tank mixture

Atrazine

Preplant Preemergent (No Tillage Corn), Preemergent (Conventional or Reduced Tillage Corn), Early or Late Postemergent (All Tillage Systems): 1 ¼ - 2 lbs. a.i./A

- With corn up to 5 inches in height, crop oil concentrate can be used.
- Do not apply if corn is taller than 1 foot in height.
- Make application before grasses are 1 ½ inches tall.
- Follow Federal and state restrictions for atrazine.

Primisulfuron

Early and Late Postemergent (All Tillage Systems): 0.31 – 0.62 oz. a.i./A

- With corn taller than 8 inches, drop pipes should be used to direct spray beneath corn leaves, to reduce risk of injury to corn, and to improve spray coverage of weeds.
- Application to emerged weeds should be made to corn that is between 4 inches and 2 feet tall.
- 0.25% (v/v) of a nonionic surfactant can be used with this tank mixture.

Metolachlor

Preplant Preemergent (No Tillage Corn), Preemergent (Conventional or Reduced Tillage Corn), early Postemergent (All Tillage Systems): 1.5 to 2.65 lbs. a.i./A

- Pay careful attention to metolachlor labels and use rates per various soil types.
- Tank mix should be used preemergent only on medium or fine textured soils with an organic matter content equal to or greater than 2.5%.
- Application can be made while corn is up to 3 inches in height, and on grasses that have not yet reached the 2-leaf stage.
- Dictator can also be tank mixed with S-metolachlor products. Carefully read S-metolachlor product labels for proper directions for use.

Dimethenamid

Preplant Preemergent (No tillage corn), Preemergent (Conventional or reduced tillage corn), Early Postemergent (All Tillage Systems): 0.75 to 1.5 lbs. a.i./A

- Pay careful attention to dimethenamid labels and use rates per various soil types.
- Tank mix should be used preemergent only on medium or fine textured soils with an organic matter content equal to or greater than 2.5%.
- Apply to corn up to 8 inches in height. If grass weeds are taller than 1 inch at the time of application, a herbicide that provides postemergent grass weeds should also be used.

Paraquat

Preplant preemergent (No tillage corn), Preemergent (Conventional or Reduced Tillage corn): $\frac{1}{4}$ - 1 lb. a.i./A

- Apply prior to corn emergence.
- Application can be made to emerged weeds.

Acetochlor

Preplant preemergent (No tillage), Preemergent (Conventional or Reduced tillage), Early Postemergent (all tillage systems): 1 $\frac{1}{2}$ - 3 lbs. a.i./A

- Pay careful attention to acetochlor labels and use rates per various soil types.
- Tank mix should be used preemergent only on medium or fine textured soils with an organic matter content equal to or greater than 2.5%.
- Apply prior to corn emergence.

Alachlor

Preplant preemergent (No tillage), Preemergent (Conventional or Reduced tillage), Early Postemergent (all tillage systems): 1 $\frac{1}{2}$ - 4 lbs. a.i. / A

- Pay careful attention to alachlor labels and use rates per various soil types.
- Tank mix should be used preemergent only on medium or fine textured soils with an organic matter content equal to or greater than 2.5%.
- Application can be made while corn is up to 3 inches in height, and on grasses that have not yet reached the 2-leaf stage.
- Make application prior to grass emergence if tank mixing with a microencapsulated formulation of alachlor.

Simazine

Preplant Preemergent (No Tillage), Preemergent (Conventional or Reduced Tillage): 2-3 lbs. a.i. / A

- Make application prior to weed or corn emergence.

Pendimethalin

Preemergent (Conventional or Reduced Tillage), Early Postemergent (All Tillage Systems): $\frac{3}{4}$ to 1 $\frac{1}{2}$ lbs. a.i. / A

- Pay careful attention to pendimethalin labels and use rates per various soil types.
- Tank mix should be used preemergent only on medium or fine textured soils with an organic matter content equal to or greater than 2.5%.
- Apply immediately after planting, prior to weed emergence.
- Apply to corn that is at the 2-leaf growth stage or smaller.

Glyphosate

Preplant Preemergent (No Tillage), Preemergent (Conventional or Reduced Tillage): 1 – 3 lbs. a.i. / A

- Application should be made prior to corn emergence.
- Application can be made to emerged weeds.

Clpyralid

Early or Late Postemergent (All Tillage Systems): 0.035 – 0.07 lbs. a.i. / A

- With corn taller than 8 inches, drop nozzles should be used to direct spray.
- Application can be made to corn after emergence up to 2 feet tall.
- 0.25% (v/v) of a nonionic surfactant can be used with this tank mixture.
- For use against thistle, apply prior to bud stage, but when a majority of the weeds have emerged and are 4 inches or taller.
- Lower use rates may only provide seasonal thistle suppression, while higher rates can be used for heavier infestations or stand reduction of larger thistle plants.

Pyridate

Early Postemergent (All Tillage Systems): 0.47 lbs. a.i. / A

Late Postemergent (All Tillage Systems): 0.47 -0.94 lbs. a.i. / A

- When corn has reached a size that prevents proper spray coverage, directed applications are recommended.
- Applications can be made to emerged, actively growing weeds.

2,4-D

Preplant Preemergent (No Tillage), Preemergent (Conventional or Reduced Tillage): ¼ to ½ lb. a.i. / A

Late Postemergent (All Tillage Systems): 1/8 lb. a.i. / A

- Use on Early Postemergent corn is not recommended.
- With corn taller than 8 inches, drop pipes should be used.
- Keeping spray away from corn leaves and whorl will improve coverage of weed foliage.
- Likelihood of crop injury is reduced if tank mix spray is kept off corn leaves and out of whorl.

Important:

- Do not exceed 1 ½ pints Dictator per treated crop acre per year.
- Do not make more than 2 applications of Dictator in a 12 month period. Two weeks or more should elapse between applications of Dictator.
- Adverse conditions (such as lack of soil moisture or low temperature) that can cause delayed or deep germination of weeds can reduce preemergence control of cocklebur, velvetleaf and jimsonweed.
- To help avoid potential injury to sensitive varieties, Dictator should not be applied to seed or popcorn without verifying product selectivity on your variety of popcorn or inbred line with your supplier.
- Avoid direct contact of Dictator with corn seed. If corn seeds are not at least 1 ½ inches below soil surface, application should be delayed until corn has emerged.
- Temporary leaning could result from applications of Dictator to corn during periods of rapid growth. Leaning will typically subside within 3 to 7 days. To avoid breakage, delay cultivation until corn is growing normally.
- To improve postemergence weed control (particularly in dry growing conditions), add sprayable fertilizers* or agriculturally approved surfactants to the spray mixture.
 - *spray grade ammonium sulfate (2.5 lbs. per acre – not for use in CA)
 - *Urea ammonium nitrate (1/2 to 1 gallon per acre of 28%, 30% or 32% solution)
- Crop injury may result from use of adjuvants containing penetrants such as petroleum based oils, if used after crop emergence.
- Once corn has reached the ensilage (milk) stage or later, it may be harvested or grazed for feed.

COTTON EXCEPT CALIFORNIA

Dictator can be applied preplant to control emerged broadleaf weeds prior to planting cotton in conventional or conservation tillage systems.

Application Rate: Up to 8 fl. oz. Dictator per acre

Application Timing: Application when rosettes are less than 2 inches across and when weeds are in the 2- to 4-leaf stage will give best performance.

A waiting interval of 21 days is required following application of this product at 8 fl. oz. per acre or less, and a minimum accumulation of 1 inch overhead irrigation or rainfall. Observe these intervals prior to planting cotton.

Dictator cannot be applied to preplant cotton:

- West of the Rockies .
- In geographic areas with average annual rainfall less than 25 inches.

If fall preplant (postharvest) treatment is followed by a spring preplant treatment, the combination of treatments cannot exceed 2 lbs. acid equivalent per acre.

Tank Mixes

Dictator may be tank mixed with herbicide products containing glyphosate, paraquat or prometryn, for control of grasses or additional broadleaf weeds.

SMALL GRAINS (WHEAT, BARLEY AND OATS NOT UNDERSEEDED TO LEGUMES)

Dictator can be applied before, during or after planting of small grains. Best performance is obtained when product is applied to weeds in the 2- to 3-leaf stage, and rosettes are less than 2 inches across. Temporary crop leaning can occur if Dictator is applied to small grains during periods of rapid growth, but crop yields will not be reduced.

Rates and Timing

Use Rate:

2 to 4 fluid ounces per treated acre in wheat, fall seeded barley and oats.

2 to 3 fluid ounces per treated acre in spring seeded wheat.

- Higher rates should be used for difficult to control weeds (such as cow cockle, kochia, prickly lettuce prostrate knotweed, Russian thistle, wild buckwheat).
- Higher rates should be used for dense vegetative growth.
- For applications prior to the emergence of weeds, use a minimum of 3 fluid ounces per acre of Dictator with a tank mix partner.
- The best spectrum of weed control is obtained when Dictator is used in a tank mix with other herbicides. Better management of herbicide tolerant or resistant weeds is obtained. Refer to specific small grains for application timing and product rate.
- When sulfonylurea resistant weeds are present or suspected, use a minimum of 3 fluid ounces per treated acre of this product with a tank mix partner (non sulfonylurea herbicides, such as 2,4-D or MCPA offer more consistent control of sulfonylurea resistant weeds).
- When tank mixing with sulfonylurea herbicides (chlorosulfuron, metsulfuron methyl, thifensulfuron, triasulfuron, tribenuron methyl), use 1 to 4 pints of a surfactant (at least 80% a.i.) that is approved for agricultural use per 100 gallons of spray (not more than 0.25 to 0.5% by volume). Higher rates of surfactant should be used when lower rates of herbicides are used, or when treating difficult to control or mature weeds, or dense vegetative growth.
- Pre-harvest interval (PHI): Wait a minimum of 7 days after the last application of this product before harvesting wheat, barley and oat grain.

When using this product, follow Directions for Use and Precautions, and all Mixing, Cleaning and Application instructions for Dictator and for any tank mix partner.

If small grains are to be used for hay or pasture, observe the following restrictions:

- Do not remove animals from treated area for slaughter less than 30 days after last application.
- Do not allow lactating dairy animals to graze treated areas for 7 days after treatment.
- No waiting period is necessary between treatment and grazing for non-lactating dairy animals.
- Preharvest interval is 37 days.

WEEDS CONTROLLED

Dictator alone or in combination with listed tank mix partners will control or suppress ANNUAL broadleaf weeds indicated below. Tank mixing Dictator with other herbicides will provide improved control of listed weeds. Refer to specific small grains for tank mix options.

These weeds will be controlled with Dictator:

Buckwheat, Tartary	Kochia	Pigweed, Redroot
Buckwheat, Wild	Ladysthumb	(Carelessweed)
Chamomile, Corn	Lambsquarters, Common	Pigweed, Rough
Cockle, Corn	Lettuce, Prickly	Pigweed, Tumble
Cockle, Cow	Mallow, Common	Smartweed, Green
Cocklebur, Common	Mustard, Tansy	Smartweed, Pennsylvania
Henbit	Nightshade, Black	Sowthistle, Annual
Knawel (German Moss)	Pennycress, Field (Fanweed,	Sunflower, Common (Wild)
Knotweed, Prostrate	Frenchweed, Stinkweed	Thistle, Russian
		Velvetleaf

The following weeds will be controlled with Dictator tank mixtures. Tank mix partner label should be consulted regarding control of specific weeds:

Alkanet	Groundsel, Common	Poppy, Red Horned
Bedstraw, Catchweed	Hempnettle	Puncturevine
Carpetweed	Jacobs Ladder	Purslane, Common
Chervil, Bur	Lettuce, Miners	Radish, Wild
Chickweed, Common	Mayweed, Chamomile	Ragweed, Common
Cornflower (Bachelorbutton)	(Dogfennel)	Ragweed, Giant (Buffaloweed)
Dragonhead, American	Mustard, Blue (Purple)	Rocket, London
Evening Primrose, Cutleaf	Mustard, Treacle	Rocket, Yellow
Falseflax, Smallseeded	Mustard, Tumble (Jim Hill)	Salsify (Goatsbeard)
Fiddleneck (Tarweed)	Mustard, Wild	Shepherdspurse
Flixweed	Nightshade, Cutleaf	Sorrel, Red (Sheep Sorrel)
Fumitory	Pepperweed, Peppergrass	Starthistle, Yellow
Gromwell, Corn	Pineappleweed	Vetch

For these broadleaf weeds, tank mixes with Dictator will control seedlings and provide suppression of established weeds:

Bindweed, Field	Nightshade, Silverleaf ² (White	Plantain, Broadleaf
Dandelion, Common	Horsenettle)	Thistle, Canada
Dock, Curley		Yarrow, Common

Fall and Spring Seeded Wheat

Apply to fall seeded wheat before it reaches the jointing stage

Apply to spring seeded wheat before it exceeds the 5-leaf stage.

Tank Mix Treatments

Apply 2 to 4 fl. oz. of Dictator with the following tank mix partners. See bullets at the end of this section for specific use precautions and restrictions.

2,4-D (amine or ester)

0.25 to 0.375 lbs. 2,4-D a.i. (8 to 12 fl. oz. of a 4 lb./gal 2,4-D end use product) per acre

MCPA (amine or ester)

0.25 to 0.375 lbs. MCPA a.i. (8 – 12 fl. oz. of a 4 lb./gal MCPA end use product) per acre

Metsulfuron methyl

1/10 oz. of a 60% DF metsulfuron methyl end use product per acre

Triasulfuron

0.28 fl. Oz. of a 75% DF triasulfuron end use product per acre

Tribenuron methyl

1/6 oz. of a 75% DF tribenuron methyl end use product per acre

Thifensulfuron + Tribenuron methyl

1/3 oz. of a 75%DF thifensulfuron + tribenuron methyl end use product per acre

Chlorsulfuron + Metsulfuron methyl

1/3 oz. of a 75%DF chlorsulfuron + metsulfuron methyl end use product per acre

Chlorsulfuron

1/6 oz. of a 75% DF chlorsulfuron end use product per acre

Bromoxynil

1 to 1 ½ pint of a 2 lb./gal bromoxynil end use product per acre

Bromoxynil + MCPA

1 to 2 pints of a 4 lb./gal bromoxynil + MCPA end use product per acre

Clopyralid

¼ to 1/3 pint of a 3 lb./gal clopyralid end use product per acre

Clopyralid + 2,4-D

2 to 2 2/3 pints of a 2.38 lb./gal clopyralid + 2,4-D end use product per acre

Diuron

1/2 to 1 ½ lbs. of an 80% DF diuron end use product per acre on fall seeded wheat only

Metribuzin

1 to 10 oz. of a 75% DF metribuzin end use product per acre on fall seeded wheat only

Note:

- Early developing wheat varieties such as TAM 107, MADISON, or WAKEFIELD must receive application between early tillering and the jointing stage. Care should be taken in staging these varieties to be certain that the application occurs prior to the jointing stage.
- Do not use low rates of sulfonyl ureas (chlorsulfuron, metsulfuron methyl, thifensulfuron, triasulfuron, tribenuron methyl) on dense vegetative growth or on more mature weeds.
- Herbicides containing the same active ingredient in a different formulation may be used. Check application rate and timing before use.
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.

Special Use Tank Mixes for Spring and Fall Seeded Wheat

Apply 3 to 4 fluid ounces of Dictator with the following tank mix partners. See bullets at the end of this section for additional Dictator application rates, as well as specific use precautions and restrictions.

2,4-D or MCPA (amine)

0.5 to 1.0 lbs. 2,4-D or MCPA a.i. (1 to 2 pt. of a 4 lb./gal 2,4-D or MCPA end use product per acre)

2,4-D or MCPA (ester)

0.5 to 0.75 lbs. 2,4-D or MCPA a.i. (1 to 1.5 pt. of a 4 lb./gal 2,4-D or MCPA end use product per acre)

Metsulfuron methyl

1/20 to 1/10 oz. of a 60% DF metsulfuron methyl end use product per acre

Triasulfuron

0.14 to 0.28 oz. of a 75% DF triasulfuron end use product per acre

Chlorsulfuron

1/6 oz. of a 75% DF chlorsulfuron end use product per acre

Chlorsulfuron + Metsulfuron methyl

1/6 to 1/3 oz. of a 75% DF chlorsulfuron + metsulfuron methyl end use product per acre

Thifensulfuron + Tribenuron-methyl

1/6 to 1/3 oz. of a 75% DF thifensulfuron + tribenuron methyl end use product per acre

Glyphosate

12 to 16 fl. oz. of a 3 lb./gal glyphosate end use product per acre

Dictator at 2 fl. oz. may be applied with no waiting period prior to planting with any glyphosate formulation labeled for use as a preplant application to small grains. Follow label directions for adjuvant use recommendations.

Use Dictator (3 to 4 fl. oz.) with the following tank mix partners for improved control of Russian thistle, flaxweed, groundwell, mayweed and fiddleneck:

Metsulfuron Methyl plus 2,4-D (amine or ester)

1/10 oz. of a 60% DF metsulfuron methyl end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Triasulfuron plus 2,4-D (amine or ester)

0.14 to 0.28 oz. of a 75% DF triasulfuron end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Tribenuron-methyl plus 2,4-D (amine or ester)

0.25 oz. of a 75% DF tribenuron-methyl end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Chlorsulfuron + Metsulfuron-methyl plus 2,4-D (amine or ester)

1/6 -1/3 oz. of a 75% DF chlorsulfuron + metsulfuron-methyl end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Chlorsulfuron plus 2,4-D (amine or ester)

0.2 oz. of a 75% DF chlorsulfuron end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Triasulfuron plus 2,4-D (amine or ester)

0.14 to 0.28 oz. of a 75% DF triasulfuron end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Thifensulfuron + Tribenuron-methyl plus 2,4-D (amine or ester)

1/6 -1/3 oz. of a 75% DF thifensulfuron + tribenuron-methyl end use product plus 8 fl. oz. of a 2,4-D 4 lb./gal end use product per acre

Note:

- Dictator can be used at 6 fl. oz. in western OR as a spring application only on fall seeded wheat.
- For suppression perennial weeds (such as bindweed), Dictator can be used up to 8 fl. oz. in CO, KS, NM, OK and TX on fall seeded wheat that has passed the 3-leaf stage.
- Make application in the fall before a killing freeze (NOTE – can be applied following a frost).
- Higher rate of 2,4-D or MCPA (ester or amine) is for use on fall seeded wheat only. Unless potential for crop injury will be acceptable, do not use.
- Tank mix with 2,4-D amine at a rate of 8 fl. oz. after wheat begins to tiller.
- Cold and wet weather and other periods of extended stress can increase the possibility of crop injury. For fall applications, do not use unless potential for crop injury is acceptable.
- Do not use low rates of sulfonyl ureas (chlorosulfuron, metsulfuron methyl, thifensulfuron, triasulfuron, tribenuron methyl) on dense vegetative growth or on more mature weeds.
- Herbicides containing the same active ingredient in a different formulation may be used. Check application rate and timing before use.
- Follow the Directions for Use, Precautionary Statements, Application Rates and Timings and any other restrictions found on the product labeling for each tank mix product used.

Fall and Spring Seeded Barley

Apply this product to fall seeded barley before the jointing stage

Apply this product to spring seeded barley (including spring seeded varieties that are seeded during winter months or later) at the 4 leaf stage or earlier.

Tank Mix Treatments

Apply 2 to 4 fl. oz. Dictator to fall seeded barley or 2 to 3 fl. oz. of Dictator to spring seeded barley with the following tank mix partners:

2,4-D

0.25 lbs. 2,4-D a.i. (8 fl. oz. of a 4 lb./gal 2,4-D end use product) per acre in fall seeded barley

MCPA

0.25 to 0.375 lbs. MCPA a.i. (8 – 12 fl. oz. of a 4 lb./gal MCPA end use product) per acre

Metsulfuron methyl

1/20 to 1/10 oz. of a 60% DF metsulfuron methyl end use product per acre

Triasulfuron

0.14 – 0.28 fl. Oz. of a 75% DF triasulfuron end use product per acre

Tribenuron methyl

1/12 to 1/6 oz. of a 75% thifensulfuron + tribenuron methyl end use product per acre in fall seeded barley

1/6 to 1/3 oz. of a 75% thifensulfuron + tribenuron methyl end use product per acre in spring seeded barley

Thifensulfuron + Tribenuron methyl

1/12 to 1/6 oz. of a 75% thifensulfuron + tribenuron methyl end use product per acre in fall seeded barley
1/6 to 1/3 oz. of a 75% thifensulfuron + tribenuron methyl end use product per acre in spring seeded barley

Chlorsulfuron

1/6 oz. of a 75% DF chlorsulfuron end use product per acre

Chlorsulfuron + Metsulfuron methyl

1/6 to 1/3 oz. of a 75%DF chlorsulfuron + metsulfuron methyl end use product per acre

Metribuzin

1 to 10 oz. of a 75% DF metribuzin end use product per acre

Bromoxynil

1 to 1 1/2 pint of a 2 lb./gal bromoxynil end use product per acre

Bromoxynil + MCPA

3/4 to 1 1/2 pint of a 4 lb./gal bromoxynil + MCPA end use product per acre

Note:

- Do not use low rates of sulfonyl ureas (chlorosulfuron, metsulfuron methyl, thifensulfuron, triasulfuron, tribenuron methyl) on dense vegetative growth or on more mature weeds.
- Herbicides containing the same active ingredient in a different formulation may be used. Check application rate and timing before use.
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.

Fall and Spring Seeded Oats

Apply this product to spring seeded oats at the 5 leaf stage or earlier.

Apply this product to fall seeded oats before the jointing stage.

Tank Mix Treatments

MCPA

Tank mix 2 to 4 fl. oz. Dictator plus .25 to .375 lbs. MCPA a.i. per acre (8 – 12 fl. oz. of a 4 lb./gal MCPA end use product)

This product may be tank mixed with one or more of the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled, geographic and other restrictions.

SORGHUM (MILO)

Dictator will control many actively growing annual broadleaf weeds, and will control seedlings of and reduce competition from established perennial weeds (see Weeds list).

Application Rate

Dictator can be applied at 1/2 pint (1/4 lb. a.i.) per treated acre (broadcast).

Application Timing

Preemergence: At least 15 days prior to planting, apply Dictator to emerged and actively growing weeds.

Postemergence: After sorghum is in the spike stage (all sorghum emerged) but before sorghum has reached 15 inches in height.

Applying Dictator to sorghum in the 3- to 5- leaf stage, and when weeds are less than 3 inches tall results in best performance.

If sorghum is taller than 8 inches, use drop pipes (drop nozzles).

To improve spray coverage of weed foliage and reduce likelihood of crop injury, keep spray off sorghum leaves and out of whorl.

Preharvest Uses

For Use Only In the States of Texas and Oklahoma

After sorghum has reached soft dough stage, Dictator may be applied for weed suppression. Performance is approved with the addition of an agriculturally approved surfactant.

Application Rate

Dictator can be applied at ½ pint (1/4 lb. a.i.) per treated acre (broadcast).

Apply in at least 2 gallons of water-based carrier per treated acre when applying aerially.

Pre-harvest Interval (PHI): Wait a minimum of 30 days after the last application of this product before harvesting sorghum grain and fodder. Wait a minimum of 20 days before harvesting sorghum forage.

Tank Mix Treatments

Dictator plus atrazine

0.5 to 2 lbs. atrazine mixed with ½ pint Dictator per treated acre

- For improved control of broadleaf weeds (emerged, actively growing), including triazine-resistant species, use atrazine up to 1.25 lbs. a.i./A.
- For added suppression of perennial broadleaf weeds, use atrazine up to 1.25 lbs. a.i./A.
- For control of grasses up to 1.5 inches in height, use atrazine at 2 lbs. a.i./A.
- Making application when sorghum is 3-8 inches tall and when weeds are less than 6 inches tall will give best performance and will result in minimal crop injury.
- Make application of atrazine before sorghum is beyond 1 foot tall.
- Atrazine rate will depend on length of residual weed control desired and upon soil texture.
- Follow all Federal and state restrictions regarding atrazine.

Dictator plus bromoxynil

1 ½ pints of a 2 lb./gal bromoxynil product mixed with ½ pint dictator per treated acre

- Make application to sorghum that is between 4 leaf stage to 15 inches in height.
- For sorghum taller than 8 inches, drop nozzles should be used to direct spray beneath sorghum leaves.

Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.

Overlay (Sequential) Treatments

Dictator can be applied to ground that has undergone prior treatment with a herbicide containing one or more of the following herbicides:

Alachlor (4.0)*, atrazine** (2.5)*, metolachlor*** (1.6)*, propachlor (5)*

*NOTE – numbers in parentheses indicate maximum lbs. a.i. per treated acre.

**Maximum use rate for atrazine is determined by soil type, tillage practices used, surface residue, and state or local restrictions. Follow the more restrictive requirements when determining the maximum use rate for atrazine.

***Metolachlor should be used on sorghum seed that has been treated with a fluxofenin or other protective seed treatment product.

Important:

- Follow all Directions for Use, Precautions (including references to crops growing under stress), Mixing and Application Instructions.
- Do not make more than one application per growing season.

- Temporary leaning of plants or rolling of leaves (typically outgrown within 10 – 14 days) can occur if Dictator is applied to sorghum during periods of rapid growth.
- Sorghum must reach mature grain stage before grazing or feeding treated sorghum forage or silage. See Pasture Use section for sorghum grown for pasture or hay.
- If sorghum is grown for seed production, do not apply this product.

SUGARCANE

Dictator will control many broadleaf weeds (Annual, Biennial and Perennial – Refer to Weeds List) typically found in sugarcane, when applied at listed rates.

Rates and Timing:

Annual weeds (small, actively growing): Apply ½ to 1 pint Dictator (1/4 to ½ lb. a.i.) broadcast per treated acre

Annual weeds (established): Apply 1 to 1 ½ pints Dictator (1/2 to 3/4 lb. a.i.) broadcast per treated acre

Biennial weeds: Apply 1 to 2 pints Dictator (1/2 to 1 lb. a.i.) broadcast per treated acre

Perennial weeds: Apply 2 pints Dictator (1 lb. a.i.) broadcast per treated acre

Tank Mix Treatments

For control of additional broadleaf weeds or grasses, Dictator can be tank mixed with one or more herbicides containing the following active ingredients:

Ametryn (2/5 to 8 lbs. a.i. per treated acre)

Asulam (2 to 3 1/3 lbs. a.i. per treated acre)

Atrazine (2/5 to 4 lbs. a.i. per treated acre)

2,4-D (1/2 to 3 lbs. a.i. per acre) [NOTE – application of Dictator plus 2,4-D at higher listed range could result in crop injury]

Important:

- Apply Dictator before the close-in stage of sugar cane, and any time after weeds have emerged and are actively growing.
- Higher listed amounts of Dictator should be used when treating dense vegetative growth.
- To minimize likelihood of crop injury, direct spray beneath sugarcane canopy when possible.
- To maximize spray coverage of weed foliage, use directed spray application.
- When retreating sugarcane, do not apply more than 4 pints Dictator (2 lbs. a.i.) per treated acre per year.
- Read and follow Mixing and Application instructions, and observe all precautions.
- When using with a tank mix, follow the tank mix partner label regarding Directions for use, weeds controlled, rates and timing, geographic and other restrictions and precautionary statements.
- State or local authorities should be consulted regarding possible application restrictions, particularly concerning special local use situations or aerial applications.
- Pre-harvest interval (PHI): Wait a minimum of 87 days after the last application of this product before harvesting sugarcane cane.

FALL AND SPRING SEEDED TRITICALE EXCEPT CALIFORNIA

Early Season Applications

Apply Dictator at a rate of 2 to 4 fluid ounces.

- Make application to fall-seeded triticale prior to jointing stage.
- Make application to spring seeded triticale prior to 6-leaf stage.

Tank Mixes

Dictator tank mixed with bromoxynil will give best performance when used on triticale.

CONSERVATION RESERVE PROGRAM (CRP) ACRES

Dictator can be applied both to established grasses and newly seeded grasses or small grains (such as barley, oats, rye, sudangrass, wheat, or other cover crop grain species) grown in Conservation Reserve or Federal Set Aside Programs. Dictator will provide control or suppression of many perennial weeds and control of many annual and biennial weeds (see Weed List), when used at listed rates.

For Newly Seeded Areas, Dictator may be applied preplant or postemergence (after seedling grasses exceed the 3-leaf stage).

- If intervals between Dictator application and grass planting are less than 45 days per pint of product treated (West of Mississippi River) or 20 days per pint (East of Mississippi River), injury to new seedlings may occur.
- When applying postemergence, newly seeded grasses can be severely injured if Dictator is used at more than 1 pint per treated acre.

Perennial grasses that have been planted for one or more seasons prior to treatment are considered as Established Grass Stands. When applying Dictator at rates exceeding 1 pint per treated acre, certain grass species (bentgrass, carpetgrass, smooth brome, buffalograss, St. Augustine grass) may be injured.

Rates and Timing

For small, actively growing annuals, use Dictator at a rate of ¼ to 1 pint (1/8 to ½ lb. a.i.) broadcast per treated acre

For biennials with rosettes less than 3 inches in diameter, use Dictator at a rate of ½ to 1 pint (1/4 to ½ lb. a.i.) broadcast per treated acre

For annuals with established weed growth, use Dictator at a rate of 1 pint (1/2 lb. a.i.) broadcast per treated acre

For biennials with rosettes 3 inches or greater in diameter, use Dictator at a rate of 1 to 2 pints (1/2 to 1 lb. a.i.) broadcast per treated acre

For bolting biennials or suppression of perennials, use Dictator at a rate of 2 pints (1 lb. a.i.) broadcast per treated acre.

Tank Mix Treatments

Dictator can be tank mixed with other herbicides registered for use in Conservation Reserve Programs to control grasses and additional broadleaf weeds. Consider tank mixing with herbicides containing the active ingredients 2,4-D, glyphosate, metsulfuron methyl, paraquat and others.

Important:

- Higher specified rates of Dictator should be used on dense or tall vegetation or for weeds growing under stressed conditions (i.e., drought, cool temperatures, etc.).
- Treat biennial weeds when they are in the rosette stage of growth for best results.
- For seedling control and escapes, biennial and perennial weeds will require sequential follow-up treatments.
- When making multiple/repeat applications, do not exceed a total of 2 quarts (2 lbs. a.i.) Dictator per treated acre per year.
- Alfalfa, clovers, lespedeza, wild inter peas, vetch and other legumes will be injured or killed if treated with Dictator.
- For newly seeded grasses, do not use adjuvants containing penetrants (such as petroleum based oils) once grass has emerged.
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.
- Follow mixing and application instructions and precautions on this label.

PREPLANT DIRECTIONS
(POST HARVEST / FALLOW / CROP STUBBLE / SET-A-SIDE) FOR BROADLEAF WEED CONTROL
BEFORE WHEAT, CORN, SORGHUM, SOYBEANS

Dictator, when applied preplant / postharvest will control or suppress many annual, biennial and perennial broadleaf weeds. Dictator can be applied to crop stubble / set-a-side areas, or in the fall, spring or summer during the fallow period. See 'Weeds Controlled' section under Small Grains for a list of annual broadleaf weeds controlled. The following biennial and perennial broadleaf weeds are controlled or suppressed by Dictator:

Alfalfa	Dock, curly	Smartweed, swamp
Artichoke, Jerusalem	Dogbane, hemp	Sowthistle, perennial
Bindweed, field and hedge	Garlic, wild	Spurge, leafy
Blueweed, Texas	Horsenettle, Carolina	Thistle; bull, Canada, milk, musk,
Bursage (Bur ragweed,	Knapweed, diffuse and spotted	plumeless, scotch
Povertyweed, Lakeweed)	Nightshade, silver	Trumpet creeper (Buckyvine)
Dandelion, common	Redvine	

Rates and Timing

For control of Annual weeds: Apply Dictator at a rate of ½ to 1 pint (1/4 to ½ lb. a.i.) per treated acre.

For control of Biennial and suppression of Perennial weeds: Apply Dictator at a rate of 1 to 2 pints (1/2 to 1 lb. a.i.) per treated acre.

For control of Perennial weeds: Apply Dictator at a rate of 2 pints (1 lb. a.i.) per treated acre.

Notes:

- Apply Dictator as a broadcast or spot treatment.
- To enhance spray coverage and penetration of weed foliage, agriculturally approved spray additives (such as surfactants or oil) may be used with Dictator.
- See Cropping Restrictions (below) for interval between application and planting to prevent crop injury.
- Application of Dictator when annual weeds have not yet reached 6 inches in height and when biennial weeds are still in rosette stage will give best results.
- For best performance against perennial weed regrowth, apply Dictator in late summer or fall, after mowing or tillage treatment.
- For best control of upright perennial broadleaf weeds (such as Jerusalem artichoke or Canada thistle), make application when majority of weeds (such as field or hedge bindweed) are in or beyond the full bloom stage.
- Following application of Dictator, avoid disturbing treated areas.
- For weeds that develop from seed, rhizomes or bulbets (or other underground plant parts), applications may not kill weeds after the effective period for Dictator.
- Institute a follow-up program or use of effective cultural practices, if necessary, for seedling control.
- For use of Dictator on small grains in-crop, see Small Grains section.

Tank Mix Treatments (including Special Tank Mixes)

Dictator can be mixed with the following tank mix partners for control of grasses or additional broadleaf weeds.

Atrazine

- Mix ¼ to 1 pint Dictator with 0.5 to 0.6 pints of a 4 lb. per gallon atrazine product or 1/2 to 3-1/3 lbs. of a 90%DF atrazine product per treated acre for control of ANNUAL weeds.

Chlorsulfuron + metsulfuron methyl

- Mix ¼ to 1 pint Dictator with 0.2 oz. of a 75% DF chlorsulfuron + metsulfuron methyl product per treated acre for control of ANNUAL weeds.

Clpyralid + 2,4-D

- Mix 1 to 2 pints Dictator with 2 to 4 pints of a 2.38 lb./gal clpyralid +2,4-D product per treated acre for control of BIENNIAL and PERENNIAL weeds.

Glyphosate

- Mix ¼ to 1 pint Dictator with 8 – 48 fl. oz. of a 3 lb./gal glyphosate product per treated acre for control of ANNUAL weeds.
- Mix 1 to 2 pints Dictator with 1 to 5 quarts of a 3 lb./gal glyphosate product per treated acre for control of BIENNIAL and PERENNIAL weeds.
- Mix ½ to 1 pint Dictator with 8 to 16 fl. oz. of a 3 lb./gal glyphosate product per treated acre for SUPPRESSION of PERENNIAL weeds.

Glyphosate + dicamba

- Mix ¼ to 1 pint Dictator with 22 – 44 fl. oz. of a 1.6 lb./gal glyphosate + dicamba product per treated acre for control of ANNUAL weeds.

Glyphosate + 2,4-D

- Mix ¼ to 1 pint Dictator with 27 – 54 fl. oz. of a 2.4 lb./gal glyphosate + 2,4-D product per treated acre for control of ANNUAL weeds.
- Mix 1 to 2 pints Dictator with 54 fl. oz. of a 2.4 lb./gal glyphosate + 2,4-D product per treated acre for control of BIENNIAL and PERENNIAL weeds.

Glyphosate + 2,4-D

Glyphosate + Dicamba

- Mix 1/8 to ¼ pint Dictator plus 22 to 54 fl. oz. of a 2.4 lb./gal glyphosate +2,4D product or 1.6 lb./gal glyphosate + dicamba product for improved control of kochia, wild buckwheat and prickly lettuce (along with other annual weeds).
- Mix ¼ to ½ pint Dictator plus 22 to 54 fl. oz. of a 2.4 lb./gal glyphosate +2,4D product or 1.6 lb./gal glyphosate + dicamba product for improved control or suppression of field bindweed and Canada thistle.

Metribuzin

- Mix ¼ to 1 pint Dictator with 0.5 to 1 lb. of a 75% DF metribuzin product or 0.75 to 1.5 pints of a 4 lb./gal metribuzin product per treated acre for control of ANNUAL weeds.

Metsulfuron Methyl

- Mix ¼ to 1 pint Dictator with 0.1 oz. of a 75% DF product per treated acre for control of ANNUAL weeds.

Paraquat

- Mix ¼ to 1 pint Dictator with 1-2 pints of a 2 lb./gal paraquat product or 1.5 pints of a 2.5 lb./gal paraquat product per treated acre for control of ANNUAL weeds.

Picloram

- Mix 1 to 2 pints Dictator with ½ to 1 pint of a 2 lb./gal picloram product per treated acre for control of BIENNIAL and PERENNIAL weeds.

Pronamide

- Mix ¼ to 1 pint Dictator with 0.5 to 1 lb. of a Pronamide 50W product per treated acre for control of ANNUAL weeds.
- Mix 1 pint Dictator with ½ to 1 lb. of a Pronamide 50W product per treated acre for control of volunteer barley bulbous bluegrass, downy brome, jointed goatgrass, common rye and volunteer wheat. Apply during fallow periods, when weeds are actively growing. Plant fall seeded wheat 9 months or more after application. Application between mid-October and mid-December, prior to soil freeze up gives best performance.

Triasulfuron

- Mix ¼ to 1 pint Dictator with 0.28 to 0.35 oz. of a 75% DF triasulfuron product per treated acre for control of ANNUAL weeds.

2,4-D

- Mix ¼ to 1 pint Dictator with 1 – 2 pints (0.5 to 1 lb. a.i.) of a 4 lb./gal 2,4-D product per treated acre for control of ANNUAL weeds.
- Mix 1 to 2 pints Dictator with 2-4 pints (1 to 2 lbs. a.i.) of a 4 lb./gal 2,4-D product per treated acre for control of BIENNIAL and PERENNIAL weeds.

2,4-D (LV ester)

- Mix 1 pint of Dictator with 3 pints of a 4 lb./gal 2,4-D LV ester product per treated acre for WILD GARLIC CONTROL. Apply when wild garlic is 4-8 inches tall.

Tank Mix Notes:

- For Canada Thistle control, use Dictator, Dictator plus a 2.38 lb./gal clopyralid + 2,4-D product or Dictator plus a 3 lb./gal glyphosate product.
- For tank mixes with atrazine, metribuzin or pronamide, review tank mix partner labels carefully, as tank mixes with these products may be subject to special restrictions.
- For tank mixes with sulfonylurea herbicides (such as chlorsulfuron + metsulfuron methyl), use an 80% a.i. surfactant at a rate of not more than 0.25 to 0.5% by volume (such as 1 to 2 parts per 100 gallons spray). Higher specified rates of surfactant should be used with lower specified rates of tank mix partners and/or when treating dense vegetative growth or more mature weeds.
- Sulfonylurea-resistant weeds may not be controlled with tank mixes of Dictator and sulfonyl urea products (such as chlorsulfuron + metsulfuron methyl). Consider alternate tank mixes in this case.
- For tank mixes with 2,4-D formulations other than 4 lb./gal, use lbs. a.i. /acre listed .

Important:

- Multiple applications / retreatment can be made as needed, but do not exceed a maximum amount of Dictator (dicamba) per treated acre during any given fallow period of 4 pints product (2 lbs. a.i.).
- Perennials noted (*) on general WEED LIST may be controlled by using Dictator at application rates lower than specified for other listed perennial weeds (see WEED LIST).
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.
- Follow mixing and application instructions and precautions on this label.

Cropping Restrictions:

Based on use of dicamba (including Dictator and any tank mix partners) up to 2 lbs. a.i. per treated acre per year

- Corn, Sorghum and Soybeans can be planted in spring, after applications that were made the previous year. If limited rainfall (less than 1 inch) occurs between application and first killing frost, cultivate treated acres before or immediately after ground thaw to allow herbicide to come in contact with moist soil.

- If interval between application and planting is less than specified, soybean injury may occur. Delay planting for 30 days per pint of Dictator / A in areas with greater than 30" of rainfall. Delay planting for 45 days per pint of Dictator / A in areas with 30" of rainfall or less. Do not count days when ground is frozen.
- Plant wheat in fall or spring following applications. If crop injury can be tolerated, spot applications can be made any time prior to crop emergence. If interval between application and planting is less than specified, wheat injury may occur.
- For use east of the Mississippi river, allow an interval of 20 days per pint of Dictator per treated acre (1 ¼ day per ounce). Do not count days when ground is frozen, as moisture is necessary for Dictator degradation.
- For use west of the Mississippi river, allow an interval of 45 days per pint of Dictator per treated acre (3 day per ounce). Do not count days when ground is frozen, as moisture is necessary for Dictator degradation.
- Any rotational crop may be planted following a normal harvest of barley, oats or wheat. If a shortened interval before harvest occurs (such as plowing under of cover crops), do not plant a sensitive crop.

SUPPRESSION / CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND (SPOT APPLICATION ONLY); FOR USE ONLY IN THE STATES OF IDAHO, MONTANA, NEVADA, OREGON, UTAH AND WASHINGTON

Dictator controls many broadleaf weeds (including black knapweed, broadleaf dock (Bitterdock), Canada thistle, curly dock, field bindweed, leafy spurge, Russian knapweed, tansy ragwort), when applied at listed rates.

Dictator can be applied at a rate of 1 quart (1 lb. a.i.) per treated acre any time following a crop harvest to stubble fallow or other cropland. Make application when weeds are actively growing and before a killing frost. Application can be made up to one month prior to planting wheat.

Important:

- Do not make more than 1 application of Dictator per year.
- Do not apply Dictator to areas where soil remains saturated with water throughout the year or to subirrigated cropland.
- Unless injury to wheat or rotated barley is acceptable, do not treat with Dictator.
- One year after application, treated areas can be planted with barley, oats, corn, sorghum (milo), and annual or perennial grass crops.
- Wait two years after application to plant treated areas with broadleaf crops (such as alfalfa, beans, peas, potatoes, sugar beets).
- Three years after application, treated areas can be planted with crops grown for seed (other than perennial grass seed).
- Perennial weed seedlings that germinate from seed one or two years after treatment are not killed in most cases. Once herbicidal effects of Dictator have subsided, institute a follow-up program or use of effective cultural practices for seedling control.
- Follow mixing and application instructions and precautions on this label.

NON-CROPLAND (PASTURE, HAY, RANGELAND AND FARMSTEAD)

Dictator will provide brush control, and control of many annual, biennial and perennial broadleaf weeds, when applied at specified rates, and is recommended for use on non-cropland (pasture, hay, rangeland and farmstead, including non-irrigation ditch banks and fence rows). At listed rates, Dictator will also

control many woody vine and brush species commonly found in non-cropland areas (Refer to Weed List). Dictator can also be applied (broadcast or spot treatment) in Noxious Weed Control Programs, Districts or Areas to control broadleaf weeds in non-cropland areas (railroad and pipeline rights of way, utilities, roadsides and highways). NOTE – Noxious weed programs may be administered at county, State or other level, however noxious weeds must be recognized at the State level.

Rates and Timing

For small, actively growing annual weeds and biennial weeds with rosettes less than 3 inches in diameter, use Dictator at a rate of ½ to 1 pint (¼ to ½ lb. a.i.) broadcast per treated acre.

For annual weeds with established weed growth, use Dictator at a rate of 1 to 1 ½ pints (½ to ¾ lbs. a.i.) broadcast per treated acre.

For biennial weeds with rosettes 3 inches or more in diameter, for suppression or top growth control of perennials, and for top growth suppression of woody brush and vines, use Dictator at a rate of ½ to 1 qt. (½ to 1 lb. a.i.) broadcast per treated acre.

For control of bolting biennials and perennials, and top growth and stem control and stem suppression of woody brush and vines, use Dictator at a rate of 1 qt. (1 lb. a.i.) broadcast per treated acre.

Mixing and Application

Dictator can be applied using water, emulsions of oil in water (including invert systems), or fluid fertilizers (sprayable) as carriers. Prior to mixing (carriers or tank mix), a compatibility test should be made (see **Compatibility Test** section).

For oil in water emulsions, spray tank should be filled halfway with water, followed with appropriate amount of emulsifier. While spray tank is under continuous agitation, next add herbicide slowly, followed by oil (fuel or diesel) or oil + additional emulsifier premix. Finish filling spray tank completely with water. To prevent oil and water from forming separate layers, vigorous agitation should be maintained during spray operation.

Spray additives such as herbicide adjuvants, penetrants, wetting agents, surfactants, emulsifiers, or drift control agents can be used with Dictator, as long as they have been agriculturally approved when used in pasture applications. All use recommendations and precautions on additive labels should be followed.

Dictator can be applied broadcast either aerially or by ground application.

- For aerial application, apply 1 to 40 gallons per treated acre of diluted spray in a water-based carrier.
- For ground application, apply 3 to 600 gallons per treated acre of diluted spray.

Weed or brush type, height and density, as well as type of ground application equipment used all affect the volume of spray applied.

Undesirable vegetation growing in individual clumps or small areas may be spot treated with a handgun or other type of application equipment used for spot treatment. Apply dilute sprays to foliage and stems up to run-off (complete wetting).

Tank Mix Treatments

For control of additional broadleaf weeds, grasses and woody brush and vines, Dictator can be tank mixed with one or more herbicides containing the following active ingredients:

Glyphosate (¾ to 3-¾ lbs. a.i. per treated acre)

Metsulfuron methyl (0.0038 to 0.011 lbs. a.i. per treated acre)

Paraquat (½ to 1 lb. a.i. per treated acre)

Picloram (⅛ to 3 lbs. a.i. per treated acre)

Triclopyr (¾ to 8 lbs. a.i. per treated acre)

2,4-D (¼ to 4 lbs. a.i. per treated acre)

A compatibility test (see **Compatibility Test** section) is recommended prior to actual tank mixing.

Important:

- When making multiple applications of Dictator, do not exceed a total of 2 quarts (2 lbs. a.i.) per treated acre per year.
- Product uses described in this section also pertain to small grains grown for pasture use only (barley, forage sorghum, oats, rye, sudangrass, wheat).
- If vegetation to be treated is dense or tall, higher listed rates of Dictator should be used.
- Best control of biennial weeds occurs in rosette stage.
- Perennials noted (*) on General WEED LIST may be controlled with lower rates of Dictator or Dictator + 2,4-D (see WEED LIST).
- Established grass crops that are under stress can display symptoms of injury. Application of herbicides (including Dictator alone, or in a tank mix) can aggravate these symptoms.
- If Dictator is used at rates greater than 1 pint per acre, newly seeded areas, including small grains grown for pasture can be severely injured.
- If Dictator is used at rates greater than 1 pint per acre, bentgrass, carpetgrass, buffalograss and St. Augustine grass may be injured (colonial bentgrasses are typically more tolerant than creeping types; velvetgrasses are most easily injured).
- Alfalfa, clovers, lespedeza, wild winter peas, vetch and other legumes will be killed or injured by treatments with Dictator.
- Animals to be slaughtered cannot be removed from areas treated with Dictator until 30 days after last application.
- Lactating dairy animals must not graze fields for 7 days after applications of Dictator up to 1 pint (1/2 lb. a.i.) per treated acre, or 21 days after applications of Dictator greater than 1 pint up to 1 quart (1 lb. a.i.) per treated acre. There is no waiting period between treatment and grazing for non-lactating animals.
- Hay to be used as feed for lactating dairy animals cannot be harvested for 37 days after applications of Dictator up to 1 pint (1/2 lb. a.i.) per treated acre, or 51 days after applications of Dictator greater than 1 pint up to 1 quart (1 lb. a.i.) per treated acre.
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.
- Follow mixing and application instructions and precautions on this label.

CUT SURFACE TREE TREATMENTS

Dictator can prevent cut tree sprouts and control unwanted trees when applied as a cut surface treatment. Use in a tank mix with 2,4-D can result in more rapid foliar effects.

Rate and Application

Mix 1 part Dictator with 1 to 3 parts water. Use a more concentrated Dictator solution when treating species that are difficult to control

Stump Treatments: Freshly cut stump surface should be sprayed or painted with Dictator solution. Be sure to thoroughly wet the area adjacent to the bark.

Frill or Girdle Treatments: Use an axe to girdle tree trunk with a series of overlapping cuts or one continuous cut. Cut surface should be sprayed or painted with Dictator solution.

DORMANT APPLICATIONS FOR CONTROL OF MULTIFLORA ROSE

Dictator can be applied as an undiluted spot concentrate directly to soil, or as an oil-water emulsion solution (LO-OIL Basal Bark treatment) to dormant multiflora rose plants.

Spot Concentrate: Apply Dictator directly to the soil at a rate dependent on canopy diameter of the multiflora rose. For example:

Canopy Diameter	Dictator Concentration
5 feet	¼ fl. oz.
10 feet	1 fl. oz.
15 feet	2 ¼ fl. oz.

- Apply product to soil as close as possible to root crown (within 6 to 8 inches of the crown).
- Make application to the uphill side of the crown on sloping terrains.
- When snow or water prevents applying Dictator directly to the soil, do not apply.
- Do not apply more than 2 quarts Dictator per acre per year.

LO-OIL Basal Bark: Mix 1 pint of Dictator with 1 ½ pints No. 2 diesel fuel, along with 1 ounce emulsifier in 1 ½ gallons of water, to make approximately 2 gallons of LO-OIL spray (for instructions on preparing an oil-in-water emulsion, refer to Mixing and Applications in this section of the label). For different amounts of final spray solution, proportionally adjust amounts of materials. Apply LO-OIL spray solutions to the basal stem region to a height of 12 to 18 inches, starting at the ground line. Make sure to cover the root crown and spray until runoff.

- Make application when plants are dormant, for best results.
- After budbreak or if plants are showing signs of active growth, do not apply.
- When snow or water prevents applying LO-OIL spray to the ground line, do not apply.
- Do not apply more than 8 gallons of LO-OIL spray solution mix per acre per year.

TURF— FOR USE IN FARMSTEAD (NON-CROPLAND) AND SOD FARMS

Dictator controls many broadleaf weeds (annual, biennial and noted (*) perennial) commonly found in turf. Additionally, Dictator will suppress the growth of many other listed woody brush and vine species and perennial broadleaf weeds (see WEED LIST).

Rates and Timing

For small, actively growing annual weeds, and for biennial weeds with rosettes less than three inches in diameter, use Dictator at a rate of ½ to 1 pint (¼ to ½ lb. a.i.) per treated acre, or 1 to 2 ¼ teaspoons per 1000 sq. ft.

For annual weeds with established weed growth, use Dictator at a rate of 1 to 1 ½ pints (½ to ¾ lb. a.i.) per treated acre, or 2 ¼ to 3 ¼ teaspoons per 1000 sq. ft.

For biennial weeds with rosettes 3 inches or greater in diameter, and for perennial weeds and woody brush and vines, use Dictator at a rate of 1 to 2 pints (½ to 1 lb. a.i.) per treated acre, or 2 ¼ to 4 ½ teaspoons per 1000 sq. ft.

Depending on spray equipment used and density or height of weeds to be treated, dilute specified amount of Dictator in 30 to 200 gallons of water per treated acre or in 3 quarts to 4 ¼ gallons of water per 1000 sq. ft.

Tank Mix Treatments

For control of additional weed species, Dictator can be tank mixed with 2,4-D, MCPA, MCPP-p or bromoxynil (see tank mix partner label for details regarding weeds controlled).

Dictator should be used at a rate of 1/5 to ½ pint (1/10 to ¼ lb. a.i.) per treated acre with:

- ½ to 1 ½ lbs. acid equivalent of 2,4-D or MCPA
- ½ lb. of MCPP-p
- 3/8 to ½ lb. a.i. of bromoxynil (Do not use tank mixes containing bromoxynil near residential areas)

Established weed stands should be treated with higher specified rates of tank mix partners.

Important:

- Application to weeds that are emerged and actively growing gives best performance.
- Higher specified levels of product should be used when treating dense vegetative growth.
- Multiple/ repeat applications can be made, but do not apply more than 2 pints (1 lb. a.i.) Dictator per treated acre per year.
- Delay application of Dictator until after second mowing, to avoid injury to newly seeded grasses.
- Sensitive grass species (such as bentgrass, buffalograss, carpetgrass, St. Augustine grass) can exhibit stunting or discoloration if Dictator is applied at rates higher than 1 pint (1/2 lb. a.i.) per treated acre.
- Where roots of sensitive plants extend, limit Dictator application rates to ¼ pint (1/8 lb. a.i.) per treated acre on coarse textured (sandy-type) soils or to ½ pint (1/4 lb. a.i.) per treated acre on fine textured (clayey-type) soils.
- Where roots of sensitive plants extend, repeat applications should not be made for 30 days, and until prior application of Dictator has been activated by rain or irrigation.
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.
- Follow mixing and application instructions and precautions on this label.

GRASS SEED CROPS – GRASSES GROWN FOR SEED

(SUCH AS BERMUDA GRASS, BLUEGRASS, FESCUE, RYEGRASS)

Dictator will provide control or suppression of several annual broadleaf weeds (see list, below). Tank mixing Dictator with other herbicides registered for use in Grass Seed Production will give control of additional weed species, as well as improved control of listed weeds

These weeds will be controlled with Dictator:

Alfalfa ¹	Clover	Lambsquarters, common
Bedstraw, catchweed	Cockle, white	Lettuce, prickly
Bindweed, field	Dock, broadleaf or curly	Mayweed (Dogfennel)
Buttercup – corn, creeping or western field	Hemlock, poison	Ragwort, tansy
Catchfly, nightflowering	Knapweed, Russian ¹	Sorrel, red (Sheep Sorrel)
Chamomile, corn	Knotweed, prostrate	Sowthistle, annual
Chickweed, common or mouseear	Kochia	Starwort, little
	Ladysthumb	Thistle, Canada ¹

¹Top Growth only

Rates and Timing

Seedling Grass: Apply ½ to 1 pint Dictator per treated acre after crop reaches 3- to 5-leaf stage

Perennial Grass (well established): Apply 2 pints Dictator per treated acre BEFORE grass seed crop begins to joint.

Tank Mix Treatments

Apply ½ to 2 pints of Dictator with the following tank mix partners.

2,4-D (amine or ester)

0.5 to 2.0 lbs. 2,4-D a.i. (1 to 4 pints of a 4 lb./gal 2,4-D end use product) per acre

MCPA (amine)

0.5 to 1.0 lbs. MCPA a.i. (1 to 2 pints of a 4 lb./gal MCPA end use product) per acre

Bromoxynil

0.25 to 0.5 lbs. bromoxynil (1 to 2 pints of a 2 lb./gal bromoxynil end use product) per acre

Clopyralid

0.1 to 0.375 lbs. clopyralid (1/4 to 1 pint of a 3 lb./gal clopyralid end use product) per acre

Clopyralid + 2,4D

1 3/4 to 4 pints of a 2.38 lb./gal clopyralid +2,4D end use product per acre

Diuron 80% DF

2 to 4 lbs. of an 80% dry flowable diuron end use product per acre

Important:

- Possible crop injury can occur when using Dictator on bentgrass. Do not use on bentgrass unless crop injury can be tolerated.
- Applying Dictator to weeds that are in the 2-4 leaf stage or with rosettes less than 2 inches across will give best results.
- For use on dense vegetative growth or more mature weeds, use higher specified levels of herbicide.
- Possible grazing and feeding restrictions in Non-Cropland (Pasture, Hay, Rangeland and Farmstead) section of label must be observed.
- Follow directions for use, precautionary statements and other restrictions on labels of tank mix partners.
- Follow mixing and application and precautions on this label.

ANNUAL GRASS CONTROL

Application of Dictator in fall or late summer after harvest and burning of established grass seed crops will suppress annual grass weeds (such as downy brome, fescue, rattail, ripgut brome, windgrass). Dictator should be applied at a rate of 2 pints product per treated acre, immediately following first irrigation, when soil is moist and when weeds are smaller than the 2-leaf stage.

WIPER APPLICATION USES

To control or suppress actively growing broadleaf weeds, brush and vines, Dictator can be applied through wiper application equipment. Apply a solution of 1 part Dictator to 1 part water.

IMPORTANT

- Do not allow herbicide solution to contact desirable vegetation
- Wiper application can be used only on crops (including Pastures) and Non-cropland areas described in this label, with the exception of Grain Sorghum (milo)
- Follow mixing and application instructions and precautions on this label

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust or equivalent material for disposal.

PESTICIDE DISPOSAL: Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:**[FOR NONREFILLABLE CONTAINERS LESS THAN 5 GALLONS:]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[FOR NONREFILLABLE CONTAINERS GREATER THAN 5 GALLONS:]

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[FOR REFILLABLE CONTAINERS GREATER THAN 5 GALLONS:]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY AND LIABILITY

Ritter Chemical LLC warrants that this product conforms to the chemical description on the label, and is reasonably fit for the purposes set forth in the "Complete Directions for Use" booklet labeling, when used in accordance with those Complete Directions for Use, under the conditions described therein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitation stated herein.

[EPA PENDING TEXT]

NOTE FOR RECORD

EPA Reg. No./ File Symbol: 9468-UA

Product Name: **DICTATOR**

Application Dated: 2/29/2012

PRIA Due Date: 7/6/2012

Action Description: **Ritter Chemical, LLC would like to register and end use AG product containing Dicamba DMA salt at 48.2% (4 lbs AI/gallon). They are citing 228-379 for substantial similarity.**

Comments:

PRODUCT CHEMISTRY:

Submitted MRID 487722-01-02 found acceptable to support group A and B prod. chem. with the exception of storage stability and corrosion characteristics.

Submitted a Basic CSF dated 2/28/2012: found acceptable by TRB (see MEMO dated 4/30/2012 in file).

ACUTE TOXICITY REVIEW:

-Signal Word: CAUTION

-Claimed Cite-ALL

DATA COMPENSATION:

claimed Cite-All for the Generic data and Acute tox. data. With an offer to pay all data submitters for Dicamba

LABEL REVIEW:

PHIs (based on the revised Dicamba RED) were added

“growing season” was revised to “year” (to be consistent with use rates in the RED)

“recommended rates” were revised to “specified rates”

Overall, the proposed label matched use directions that have already been approved for similar dicamba products- also consistent with the RED

DATA GAPS:

Storage Stability (830.6317)

Corrosion Characteristics (830.6320)



RE: DICTATOR (EPA D# 462495)- label revisions needed

Leanne Pruett

to:

Bethany Benbow

06/26/2012 07:37 PM

Hide Details

From: Leanne Pruett <Leanne@PyxisRC.com>

To: Bethany Benbow/DC/USEPA/US@EPA

History: This message has been replied to.

1 Attachment



009468-XXXXX.20120626.Ritter Dictator Initial Appl with EPA required corrections. PDF.pdf

Hi, Beth –

Here is the updated label. I believe I captured all your changes – went through it twice to make sure. If you find, however, that I missed something, please let me know in the morning and I'll turn it right around and get it back to you.

Best Regards,
Leanne Pruett

From: Bethany Benbow [mailto:Benbow.Bethany@epamail.epa.gov]

Sent: Tuesday, June 26, 2012 9:52 AM

To: Leanne Pruett

Subject: DICTATOR (EPA D# 462495)- label revisions needed

Importance: High

Good morning Leanne,



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND
POLLUTION PREVENTION

**TECHNICAL REVIEW BRANCH
SIMILARITY DETERMINATION**

08/MAY/2012

MEMORANDUM

Subject: Name of Pesticide Product: Dictator
EPA Reg. No. /File Symbol: 9468-UA
DP Barcode: D401277
Decision No: 462495
Action Code: R300
PC Code: 029801 (dicamba)

From: Eugenia McAndrew, Biologist
Technical Review Branch
Registration Division (7505P)

E. McAndrew

*M. Hasler
T.B. Toxicology*

To: Bethany Benbow, RM Team 23
Herbicide Branch
Registration Division (7505P)

Applicant: Ritter Chemical, LLC
P.O. Box 430974
Houston, TX 77243

FORMULATION FROM LABEL:

<u>Active Ingredient(s):</u>	<u>% by wt.</u>
Dimethylamine Salt of Dicamba	48.2
<u>Other Ingredient(s):</u>	<u>51.8</u>
Total:	100.0%

ACTION REQUESTED: The Risk Manager requests: "Ritter chemical, LLC would like to register an end-use ag. herbicide containing DMA salt of Dicamba. They are using the cite-all method of support for acute tox. data. They are claiming similarity to EPA Reg. No. 228-379."

BACKGROUND: Ritter Chemical, LLC has applied for registration of Dictator, EPA File Symbol 9468-UA, claiming similarity to Diablo Herbicide, EPA Reg. No. 228-379. The active ingredient in both products is dimethylamine salt of dicamba - 48.2% in the proposed product vs. 49.41% in the cited product. The registrant is using the cite-all method of data support to satisfy the acute toxicity data requirements. The submission includes a basic CSF dated February 28, 2012, label, data matrix and company letter.

A search of the OPP electronic databases shows that six acute toxicity studies submitted to support the registration of the cited product, 228-379, were reviewed and classified as acceptable in a prior TRB memo (McAndrew; D340827; EPA Reg. No. 228-379; 11/SEPT/2007).

RECOMMENDATIONS:

1. TRB compared the basic CSFs of the proposed product, 9468-UA, and the cited product, 228-379, and determined that the two products are substantially similar.
2. The acute toxicity profile for the proposed product, Dictator, EPA File Symbol 9468-UA, is as follows:

acute oral toxicity	IV	cited	EPA Reg. No. 228-379
acute dermal toxicity	IV	cited	EPA Reg. No. 228-379
acute inhalation toxicity	IV	cited	EPA Reg. No. 228-379
primary eye irritation	III	cited	EPA Reg. No. 228-379
primary skin irritation	IV	cited	EPA Reg. No. 228-379
dermal sensitization	negative	cited	EPA Reg. No. 228-379

3. This memorandum pertains only to the decision concerning whether the subject product is similar to the cited product from an acute toxicological view point. For the purposes of this action, TRB has made no further determination of the adequacy of the toxicological data base or the precautionary label of the cited product.
4. The proposed basic CSF submitted for 9468-UA was reviewed and accepted by the TRB Product Chemistry Team (Kitchens; D401273; 02/MAY/2012).

LABELING: Based on the toxicity profile above, the following are the precautionary and first aid statements for this product as obtained from the Label Review System:

PRODUCT ID #: 009468-00046

PRODUCT NAME: Dictator

PRECAUTIONARY STATEMENTS

SIGNAL WORD: CAUTION

Hazards to Humans and Domestic Animals:

Causes moderate eye irritation. Avoid contact with eyes or clothing. [Wear protective eyewear.]*Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear: Long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves.

*[Protective eyewear may be specified, if appropriate.]

First Aid:

If in eyes:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEE

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

OFFICE OF PESTICIDE PROGRAMS
REGISTRATION DIVISION (7505P)

DP BARCODE No.: D401273
PC CODE: 029801
FOOD USE: YES

FILE SYMBOL No.: 9468-UA
ACTION CODE: R 300
PRODUCT NAME: Dictator

DECISION No.: 462495

DATE OUT: April 30, 2012

SUBJECT: End Use Product Chemistry Review
Product Name: Dictator

FROM: Bruce F. Kitchens, Chemist
Product Chemistry Team
Technical Review Branch/RD (7505P)

Bruce F. Kitchens
30 Apr 2012
SRB 572112

TO: RM 23, Kathryn Montague/Bethany Benbow
Herbicide Branch/RD (7505P)

Company Name: Ritter Chemistry LLC
Formulation Type: Liquid

INTRODUCTION:

The registrant has submitted an application for the registration of the new end use product, Dictator. The active ingredient in this product is the Dimethylamine salt of Dicamba at a label nominal concentration of 48.2% a.i. This product is intended for use as an herbicide. In addition, the registrant states that the proposed product is substantially similar to EPA Reg. No. 228-379 Diablo Herbicide. In support of the registration application, the registrant has submitted a basic Confidential Statement of Formula (CSF) dated 28 Feb 2012, a draft label and 830 Series Group A and B product chemistry data contained in MRID Nos. 487722-01 and -02. The Technical Review Branch (TRB) has been asked to review this submission.

SUMMARY OF FINDINGS:

1. Name of Active Ingredient: Dicamba dimethylamine salt (48.2% a.i.)
2. Has the registrant claimed substantial similarity to a registered product?
[X] Yes; [] No; [] NA; if yes give the registration number of the cited product.
EPA Reg. No. 228379
3. All of the source materials of the active ingredient are derived from registered sources- [X] Yes [] No
4. All inert ingredients have been screened by IAB and found to be approved for the proposed labeled uses.
5. Confidential Statement of Formula:
[X] Basic - Dated: 28 Feb 2012

DP BARCODE No.: D401273
PC CODE: 029801
FOOD USE: YES

FILE SYMBOL No.: 9468-UA
ACTION CODE: R 300
PRODUCT NAME: Dictator

DECISION No.: 462495

6. Product label

- a. Ingredient statement: Nominal concentration of AI listed on CSF concurs with product label (PR Notice 91-2).
☒ Yes, if not, explain below:

Is the sub statement in compliance with PR Notice 97-6 (inert ingredient vs other ingredient)
☒ Yes; ☐ No; if not, explain below

Metallic equivalent: ☐ Yes ☒ NA;
Soluble arsenic: ☐ Yes ☒ NA
Isomeric ratios: ☐ Yes ☒ NA
Acid Equivalent: ☒ Yes ☐ NA; acid equivalent = 40.0% a.e.

- b. Health related sub statements: Product contains?

Petroleum distillate at > 10%: ☐ Yes; ☐ No; ☒ NA
Methanol at > 4%: ☐ Yes; ☐ No; ☒ NA
Sodium nitrate/sodium nitrite ☐ Yes; ☐ No; ☒ NA

- c. Physical chemical hazard statement: Product label requires a statement per 40 CFR §156.78 for: flammability, explosive potential or electric insulator breakdown?
☐ Yes ☒ No

Is the sub statement in compliance with PR Notice 98-6 (Total Release Fogger)?
☐ Yes; ☐ No; ☒ NA; if not, explain below

- d. Label requires an additional Storage and Disposal statement: ☐ Yes ☒ No; if yes explain below:

DP BARCODE No.: D401273
PC CODE: 029801
FOOD USE: YES

FILE SYMBOL No.: 9468-UA
ACTION CODE: R 300
PRODUCT NAME: Dictator

DECISION No.: 462495

7. Group A: Product Chemistry Data

TRB's determination of the acceptability for the proposed product is listed in the tables below.

Guideline No.	Study Title		Data submitted		TRB's Assessment of Data	MRID Nos.
			Yes	No		
830.1550	Product Identity & Composition		X		A	487722-01
830.1600	Description of materials used to produce the product		X		A	487722-01
830.1650	Description of formulation process		X		A	487722-01
830.1670	Discussion on the formation of impurities		X		A	487722-01
830.1700	Preliminary analysis			X	NA	
830.1750	Certified limits (158.350)	Standard certified limits		X		487722-01
		Proposed Limits		X		
		Justification for wider limits		X		
830.1800	Enforcement analytical method		X		A	487722-01

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver Request, I = In Progress, NA = Not Applicable; U = Upgradeable.

DP BARCODE No.: D401273
 PC CODE: 029801
 FOOD USE: YES

FILE SYMBOL No.: 9468-UA
 ACTION CODE: R 300
 PRODUCT NAME: Dictator

DECISION No.: 462495

8. Group B:

Guideline No.	Study Title	Value or Qualitative Description	TRB's Assessment of Data	MRID Nos.
830.6303	Physical State	Brown liquid with a mild odor	A	487722-02
830.6315	Flammability	Product does not contain flammable components	A	487722-02
830.6316	Explodability	Product not explosive	A	487722-02
830.7000	pH	5.71 (1% solution)	A	487722-02
830.7300	Density (units)	1.150 g/cc (9.60 lb/gal) @26°C 1.145 g/cc (9.56 lb/gal) @ 38°C	A	487722-02

A = Acceptance, N = Not Acceptable, G = Data Gap, W = Waiver request, NA = Not applicable, I = In progress;
 U = Upgradeable.

DP BARCODE No.: D401273
PC CODE: 029801
FOOD USE: YES

FILE SYMBOL No.: 9468-UA
ACTION CODE: R 300
PRODUCT NAME: Dictator

DECISION No.: 462495

CONCLUSIONS:

The TRB has reviewed the product chemistry data submitted for the proposed end-use product and has concluded that:

1. The basic formula CSF for the proposed end-product, Dictator dated 28 Feb 2012 is acceptable.
2. This submission satisfies the data requirements as specified in 40 CFR 158.155, 158.160, 158.165, 158.167, 158.175, and 158.180 with respect to product identity and composition, description of materials used to produce the product, description of formulation process, discussion of formation of impurities, certified limits, and enforcement analytical method.
3. This submission satisfies the data requirements as specified in 40 CFR 158.190 with respect to physical and chemical properties except for storage stability and corrosion characteristics. The registrant states that 1-year studies are in progress to fulfill the storage stability and corrosion characteristics data requirements. These studies will be submitted to the Agency upon completion.
4. The proposed product has been determined to be substantially similar in composition to EPA Reg. No. 228-379 from a product chemistry standpoint.
5. The proposed label has been reviewed for pertinent product chemistry information. Review of the label remains the purview of the RM team reviewer.



United States
Environmental Protection Agency
Washington, DC 20460

☒ Registration
☐ Amendment
☐ Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Ritter Chemical, LLC / 9468-XX UA	2. EPA Product Manager K. Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Ritter Chemical, LLC/ Dictator	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Ritter Chemical, LLC c/o Pyxis Regulatory Consulting, Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. 228-379 Product Name Diablo	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input checked="" type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional pages if necessary. (For section I and Section II.)

This application falls under Category R300 (44: New product) as only product chemistry data are being submitted and the cite-all option under the selective method is being used to support product specific acute toxicity and generic data requirements. The fee due, which has been paid, is \$1434 and the decision timeline is 3 months.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 2.5 gallon - 275 gallon		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name P. Leanne Pruett	Title Agent	Telephone No. (include Area Code) (253) 353-7369
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Data Application Received (Stamped)
2. Signature 	3. Title Agent	
4. Typed Name P. Leanne Pruett	5. Date February 29, 2012	

Pyxis REGULATORY CONSULTING, INC.

4110 136th St. NW
Gig Harbor, WA 98332

Phone: 253-853-7369
Fax: 253-853-5516
www.PyxisRC.com

February 29, 2012

Kathryn Montague (PM23)
Document Processing Desk (REGFEE)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202-4501

RE: Ritter Chemical, LLC. – Dictator (EPA Reg. No. 9468-)
Application for New Pesticide Registration

Dear Ms. Montague,

On behalf of Ritter Chemical, LLC we are submitting an application for registration of Dictator, an end-use product containing dimethylamine salt of dicamba as the active ingredient. In support of this application, we submit the following documents:

1. Application for Registration (EPA Form 8570-1) – 3 copies
2. Copy of PRIA payment receipt
3. Confidential Statement of Formula - 3 copies
4. Proposed product labeling – 3 copies
5. One copy of the proposed label on CD
6. Certification with respect to Label Integrity
7. Certification with Respect to Citation of Data (EPA Form 8570-34)
8. Agency Internal Use Copy of the Data Matrix (EPA Form 8570-35)
9. Public File Copy of the Data Matrix (EPA Form 8570-35)
10. Letter of Authorization from Ritter Chemical, LLC
11. Three (3) copies of the Product Specific Data

Volume I	830.1550, 830.1600, 830.1650, 830.1670, 830.1750, 830.1800	Pruett, L. Dictator Product Properties Report [Contains Description of Materials Used to Produce the Product, Description of the Formulation Process, Discussion of Formation of Impurities, Certified Limits and Enforcement Analytical Method] <i>Contains Confidential Business Information.</i>
Volume II	830.6302, 830.6303, 830.6304, 830.6314, 830.7000, 830.7100, 830.7300	Johnson, L. Physical and Chemical Characteristics of Dictator [Contains Color, Physical State, Odor, Oxidation / Reduction, pH, Viscosity, Density]

Please note that the Basic CSF for Dictator has been drafted in the format recommended in EPA Memorandum entitled 'Confidential Statements of Formula for End Use Products (EP's) and Manufacturing Use Products (MUP's)', dated November 28, 2011.

Ritter Chemical, LLC believes its product, Dictator, is substantially similar to a currently registered product (EPA Reg. No. 228-379). Ritter believes this application falls under Category R300 (44: New product – Me-Too, Fast Track – 3 month timeline, \$1434.00 PRIA fee) as only product chemistry data are being submitted to support the application for registration and the cite-all option under the selective method is being used to support all other data requirements.

If you have any questions or concerns regarding this application for registration, or require additional information, please contact me at (253) 853-7369 or Leanne@PyxisRC.com.

Best Regards,

A handwritten signature in black ink, appearing to read "P. Leanne Pruett". The signature is fluid and cursive, with a long horizontal stroke at the end.

P. Leanne Pruett
Pyxis Regulatory Consulting

Enclosures

cc: Ritter Chemical, LLC



Ritter Chemical LLC

October 28, 2009

To Whom It May Concern:

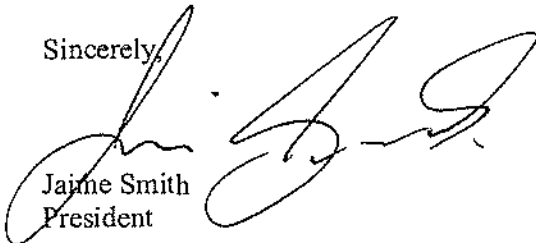
RE: Letter of Authorization

Dear Sir or Madam:

Please let this letter serve to confirm that Pyxis Regulatory Consulting, Inc. is authorized to act as agents for Ritter Chemical, LLC (EPA Company Number 9468), before the U.S. Environmental Protection Agency and state governmental agencies in all matters regarding our pesticide registrations pursuant to the Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA"), 7 U.S.C. § 136 et seq. and state law.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Jaime Smith
President

cc: Pyxis Regulatory Consulting, Inc.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the completed form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Ritter Chemical, LLC, P. O. Box 430974, Houston, TX 77243 ; (253)-853-7369	EPA Registration Number/File Symbol 9466-XX
Active Ingredient(s) and/or representative test compound(s) Dimethylamine salt of Dicamba	Date February 29, 2012
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) Terrestrial food, Terrestrial Feed, Terrestrial Nonfood	Product Name Dictator

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☒ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature

P. Leanne Pruett

Date

Feb. 29, 2012

Typed or Printed Name and Title

P. Leanne Pruett, Agent



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

March 19, 2012

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OPP Decision Number: D-462495
EPA File Symbol or Registration Number: 9468-UA
Product Name: DICTATOR
EPA Receipt Date: 16-Mar-2012
EPA Company Number: 9468
Company Name: RITTER CHEMICAL, LLC

P. LEANNE PRUETT
PYXIS REGULATORY CONSULTING, INC.
RITTER CHEMICAL, LLC
4110 136TH STREET, N.W.,
GIG HARBOR, WA 98332-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application and certification of payment. If you submitted data with this application, the results of the PRN-2011-3 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300

NEW PRODUCT;ME-TOO PRODUCT FAST TRACK;

No additional payment is due at this time.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 308-9362.

Sincerely,

A handwritten signature in black ink, appearing to read "M. J. Lee", is written over the typed name.

Front End Processing Staff
Information Technology & Resources Management Division

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

DATA MATRIX

Date: February 29, 2012	EPA Reg. No./File Symbol: 9468-XX	Page 1 of 5
Applicant's/Registrant's Name & Address: Ritter Chemical, LLC P. O. Box 430974, Houston, TX 77243	Product: Dictator	

Ingredient: Dimethylamine Salt of Dicamba (CAS No. 2300-66-5)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SERIES 61	PRODUCT CHEMISTRY REPORT				
830.1550	Product Identity and Composition	ENCLOSED	Ritter Chemical, LLC	OWN	
830.1600	Description of Materials used to produce product	ENCLOSED	Ritter Chemical, LLC	OWN	
830.1620	Description of Production Process				Not Required ¹
830.1650	Description of Formulation Process	ENCLOSED	Ritter Chemical, LLC	OWN	
830.1670	Discussion of Formation of Impurities	ENCLOSED	Ritter Chemical, LLC	OWN	
830.1700	Preliminary Analysis				Not Required ²
830.1750	Certified Limits	ENCLOSED	Ritter Chemical, LLC	OWN	
830.1800	Enforcement Analytical Method	ENCLOSED	Ritter Chemical, LLC	OWN	
SERIES 63	PHYSICAL-CHEMICAL CONSTANTS				
830.6302	Color	ENCLOSED	Ritter Chemical, LLC	OWN	
830.6303	Physical State	ENCLOSED	Ritter Chemical, LLC	OWN	
830.6304	Odor	ENCLOSED	Ritter Chemical, LLC	OWN	
830.6313	Stability to Normal, Elevated T's, Metals, Metal Ions				Not Required ³

Signature 	Name and Title: P. Leanne Pruett, Regulatory Consultant	Date: 2-29-2012
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DATA MATRIX

Date: February 29, 2012

EPA Reg. No./File Symbol: 9468-XX

Page 2 of 5

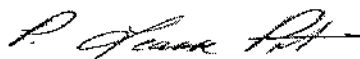
Applicant's/Registrant's Name & Address:
 Ritter Chemical, LLC
 P. O. Box 430974, Houston, TX 77243

Product: Dictator

Ingredient: Dimethylamine Salt of Dicamba (CAS No. 2300-66-5)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SERIES 61	PHYSICAL-CHEMICAL CONSTANTS (continued)				
830.6314	Oxidation / Reduction: chemical incompatibility	ENCLOSED	Ritter Chemical, LLC	OWN	
830.6315	Flammability				Waiver ⁴
830.6316	Explosibility				Waiver ⁵
830.6317	Storage Stability				PR-92-5 ⁶
830.6319	Miscibility				Waiver ⁷
830.6320	Corrosion Characteristics				PR-92-5 ⁶
830.6321	Dielectric Breakdown Voltage				Waiver ⁸
830.7000	pH	ENCLOSED	Ritter Chemical, LLC	OWN	
830.7050	UV / Visible Absorption				Not Required ⁹
830.7100	Viscosity	ENCLOSED	Ritter Chemical, LLC	OWN	
830.7200	Melting Point / Melting Range				Not Required ⁹
830.7220	Boiling Point / Boiling Range				Not Required ⁹
830.7300	Density / Relative Density / Bulk Density	ENCLOSED	Ritter Chemical, LLC	OWN	
830.7370	Dissociation Constant				Not Required ⁹

Signature



Name and Title:

P. Leanne Pruett, Regulatory Consultant

Date:

2-29-2012

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DATA MATRIX

Date: February 29, 2012	EPA Reg. No./File Symbol: 9468-XX	Page 3 of 5
Applicant's/Registrant's Name & Address: Ritter Chemical, LLC P. O. Box 430974, Houston, TX 77243		Product: Dictator

Ingredient: Dimethylamine Salt of Dicamba (CAS No. 2300-66-5)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
SERIES 61	PHYSICAL-CHEMICAL CONSTANTS (continued)				
830.7520	Particle Size, Fiber Length, diameter distribution				Waiver ^d
830.7550, .7560, .7570	N-octanol/water Partition Coefficient				Not Required ^d
830.7840, .7860	Water Solubility				Not Required ^d
830.7950	Vapor Pressure				Not Required ^d
SERIES 870	ACUTE TOXICITY				
870.1100	Acute Oral Toxicity	Cite-All		PAY	
870.1200	Acute Dermal Toxicity	Cite-All		PAY	
870.1300	Acute Inhalation Toxicity	Cite-All		PAY	
870.2400	Acute Eye Irritation	Cite-All		PAY	
870.2500	Acute Dermal Irritation	Cite-All		PAY	
870.2600	Skin Sensitization	Cite-All		PAY	

Signature 	Name and Title: P. Leanne Pruett, Regulatory Consultant	Date: 2-29-2012
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WASHINGTON, D.C. 20460

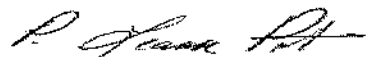
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DATA MATRIX

Date: February 29, 2012	EPA Reg. No./File Symbol: 9468-XX	Page 4 of 5
Applicant's/Registrant's Name & Address: Ritter Chemical, LLC P. O. Box 430974, Houston, TX 77243		Product: Dictator

Ingredient: Dimethylamine Salt of Dicamba (CAS No. 2300-66-5)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Dicamba Product Specific and Generic Data Requirements					
Ritter is using the cite-all option to satisfy acute toxicity and generic data requirements. Ritter will make offers-to-pay to the following companies on the September 30, 2011 Data Submitters List for dimethylamine salt of dicamba (code 029802)					
		Cite-All	Syngenta Crop Protection, LLC POB 18300, Greensboro, NC 27419	PAY	
		Cite-All	Nufarm Americas, Inc.; 4020 Aerial Ctr Pkwy Ste 101, Morrisville, NC 27560	PAY	
		Cite-All	The Scotts Company POB 190, Marysville, OH 43040	PAY	
		Cite-All	The Scotts Company; 14111 Scottslawn Rd., Marysville OH 43041	PAY	
		Cite-All	PBI/Gordon Corp.; POB 014090, 1217 W 12 th St, Kansas City, MO 64101	PAY	
		Cite-All	BASF Corporation 26 David Drive, RTP, NC 27709	PAY	
		Cite-All	Chemsico POB 14262, St. Louis, MO 63114	PAY	
		Cite-All	Lesco, Inc. 1385 E 36 th St., Cleveland, OH 44114	PAY	
		Cite-All	Gharda Chemicals Ltd., 4032 Crockers Lake Blvd, Ste 818, Sarasota, FL 34238	PAY	
		Cite-All	Loveland Products, Inc. POB 1286, Greeley, CO 80632	PAY	
		Cite-All	Howard Fertilizer and Chem. Co., Inc. POB 1019, Salem, VA 24153	PAY	
		Cite-All	Albaugh, Inc. 1525 NE 36 th St., Ankeny IA 50021	PAY	
Signature 			Name and Title: P. Leanne Pruett, Regulatory Consultant		Date: 2-29-2012

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WASHINGTON, D.C. 20460

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DATA MATRIX

Date: February 29, 2012	EPA Reg. No./File Symbol: 9468-XX
Applicant's/Registrant's Name & Address: Ritter Chemical, LLC P. O. Box 430974, Houston, TX 77243	Product: Dictator

Ingredient: Dimethylamine Salt of Dicamba (CAS No. 2300-66-5)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		Cite-All	BASF Sparks, LLC POB 13528, RTP, NC 27709	PAY	
		Cite-All	Spray Drift Task Force 1900 K St, NW, WA DC 20006	PAY	
		Cite-All	Repar Corp.; 1050 Conn. Ave, NW, Ste 1000, WA DC 20036	PAY	
		Cite-All	Petro-Canada Lubricants, Inc., A Suncor 1330 Conn Ave, NW, WA DC 20036	PAY	
		Cite-All	Gharda USA, Inc.; 660 Newtown-Yardley Rd, Ste 105, Newtown PA 18940	PAY	
		Cite-All	Nufarm, Inc.; 4020 Aerial Center Pkwy, Ste 101, Morrisville, NC 27560	PAY	
		Cite-All	Outdoor Residential Exposure TF 1350 I St., NW, WA DC 20005	PAY	
		Cite-All	Agricultural Reentry Task Force 1350 I St., NW, WA DC 20005	PAY	
		Cite-All	Bayer Advanced; POB 12014, 2 TW Alexander Dr., RTP, NC 27709	PAY	
		Cite-All	FIFRA Endangered Species TF 1350 I St., NW, WA DC 20005	PAY	
		Cite-All	Residential Exposure Joint Venture 900 17 th St., NW, Ste 300, WA DC 20006	PAY	
		Cite-All	Ag. Handlers Exposure TF; POB 509, 1720 Prospect Dr, Macon, MO 63552	PAY	
		Cite-All	Libertas Now, Inc.; 1000 N West St., Ste 1200, Wilmington, DE 19801	PAY	
		Cite-All	Tacoma Ag, LLC; 115 Obtuse Hill Rd., Brookfield, CT 06804	PAY	
		Cite-All	Gharda Generics, Inc.; 4032 Crockers Lake Blvd., Ste 818, Sarasota, FL 34238	pay	

Signature 	Name and Title: P. Leanne Pruett, Regulatory Consultant	Date: 2-29-2012
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Endnotes for Dictator Data Matrix
February 28, 2012

¹830.1620 - Per OPPTS 830.1000, these data are not required for the registration of an end-use product. See 830.160 for formulation process information

²830.1700 – This product does not consist solely of the technical grade active ingredient (TGA), and is not produced by an integrated system, therefore, per OPPTS 830.1700, these data are not required

³830.6313, 830.7050, 830.7200, 830.7220, 830.7370, 830.7550, 830.7560, 830.7570, 830.7840, 830.7860, 830.7950 – These data are not required for registration of an end use product.

⁴830.1500 - Dictator does not contain a combustible liquid, therefore this data is not required.

⁵830.6316 – Dictator does not have the chemical bonds or functional groups associated with explosive chemicals, therefore this data is not required. Please refer to the Confidential Statement of Formula for additional information on the composition of Dictator

⁶830.6317, 830.6320 – Ritter Chemical, LLC is currently conducting long-term storage stability and corrosion characteristics studies to satisfy guidelines 830.6317 and 830.6320. Per PR Notice 92-5, storage stability and corrosion characteristic data are not required to be submitted unless specifically requested by the Agency. Ritter will submit these data upon completion.

⁷830.6319 – Dictator is not an emulsifiable concentrate to be diluted with any solvent (including petroleum solvents); therefore, miscibility data is not applicable.

⁸830.6321 – Dictator is not proposed for use around electrical equipment. Therefore this data is not applicable.

⁹830.7520 – Dictator is not water insoluble, and is not a fibrous material, therefore these data are not applicable.

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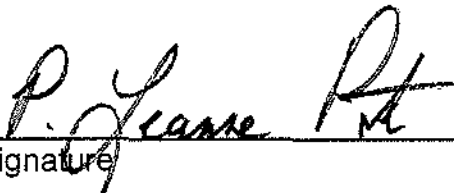
Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
9468-XX	February 29, 2012	009468-xxxxx.20120229.Ritter Dictator Initial Appl.PDF

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.


Signature

Feb 29, 2012
Date

P. Leanne Pruett

Name (typed)

Agent

Title

There is an **ELECTRONIC LABEL** for this action

You can use Acrobat to compare the e-label to the previous version (and find the changes). You can also use Acrobat to mark-up the e-label with your comments.

If e-label was submitted via

CD-ROM with paper application

then you will find e-label in

Electronic Label Library

If the e-label is not found in the ELL then it was probably not named correctly and could not be entered into the ELL. However, the file can be retrieved from the CD which is retained by the Front End.

or

If e-label was submitted via

XML E-Submission (no paper)

then you will find e-label in

Documentum

See overview of processing e-labels on other side of this sheet.

If you have any questions on e-labels, please contact one of your division e-label experts:

AD	Willie Abney	308-1689
	Renae Whitaker	308-7003
	Tracy Lantz	308-6415
BPPD		
RD	Tom Harris	308-9423

21-Day Screen Completed by
Contractor

21-Day Expires on 4-6-12

Jacket # 9468-UA

MRID# 487722

Content Screen: Recommend to Pass/Fail

11-3 Review: Pass/Fail/NA

Overall Status: Recommend to Pass/Fail

Transfer This Jacket to:

Stephen Schauble

PRIA 2 – 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only)

3/23/09

21 Day Screen Start Date: 3-16-12

Experts In-Processing Signature: M F Harrington Date 3-20-12 Fee Paid: Yes ☒

Division management contacted on issues No ☐ Yes ☐ Date _____

EPA Reg. Number: <u>9468-0A</u>		EPA Receipt Date: <u>3-16-12</u>				
Items for Review				Yes	No	N/A*
1	Application Form (EPA Form 8570-1)(link to form) signed & complete including package type			X		
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4) (Link to form)			X		
	a) All inerts (link to http://www.epa.gov/opprd001/inerts/), including fragrances, approved for the proposed uses (see Footnote A) <i>pre-harvest</i>	yes	no			
		X				
3	Certification with Respect to Citation of Data (EPA Form 8570-34) (Link to form) completed and signed (N/A if 100% repack)			X		
	Certificate and data matrix consistent			X		
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	yes	no			
	If applicable, is there a letter of Authorization for exclusive use only.					
4	Formulator's Exemption Statement (EPA Form 8570-27) (Link to form) completed and signed (N/A if source is unregistered or applicant owns the technical)					X
	Data Matrix (EPA Form 8570-35) (Link to form) both internal and external copies (PR 98-5) (Link to PR 98-5) completed and signed (N/A if 100% repack)			X		
5	a) Selective Method (Fee category experts use)	yes	no			
		X				
	b) Cite-All (Fee category experts use)					
	c) Applicant owns all data (Fee category experts use)					
6	5 Copies of Label (link to http://www.epa.gov/oppfead1/labeling/lrm/) (Electronic labels on CD are encouraged and guidance is available)(link to http://www.epa.gov/pesticides/regulating/registering/submissions/index.htm#labels)			X		

7	Is the data package consistent with PR Notice 86-5 (link to PRN 86-5)	X		
8	Notice of Filing (link to http://www.epa.gov/pesticides/regulating/tolerance_petitions.htm) included with petitions (link to http://www.epa.gov/pesticides/regulating/tolerances.htm)			X
9	If applicable for conventional applications, reduced risk rationale (link to http://www.epa.gov/opprd001/workplan/reducedrisk.html)			X
10	Required Data (link to http://www.epa.gov/pesticides/regulating/data_requirements.htm) and/or data waivers. See Footnote C.			
	a) List study (or studies) not included with application			

Comments:

- VC
2/27/12
- 11-3: associated studies have passed review
 - ✓ □ Inerts: approved for food use under 40 CFR 180.920, pre harvest application to growing crops.
 - Documentation: all required forms are present & complete

Status: Pass

MRID 487722

* N/A – Not Applicable

Footnotes

A. During the 21 day initial content review, all CSFs will be reviewed to determine whether all inerts listed, including fragrances, are approved for the proposed uses. If an unapproved inert is identified, the applicant must either 1) resolve the inert issue by, for example, removing the inert, substituting it with an approved inert, submitting documentation that EPA approved the inert for the proposed pesticidal uses, correcting mistakes on the CSF, etc. or 2) provide the data to support OPP approval of the inert or 3) withdraw the application. Removing or substituting an inert ingredient will require a new CSF and may require submission of data. All information, forms, data and documentation resolving the inert issue must have been received by the Agency or the application withdrawn within the 21 day period, otherwise, the Agency will reject the application as described below.

To successfully complete this aspect of the 21 day initial content screen, applicants are **strongly encouraged** to verify that all inert ingredients have been approved for the application's uses **even if a product is currently registered** by consulting the inert Web

site [link to <http://www.epa.gov/opprd001/inerts/lists.html>] and if the inert is not approved, to **obtain the necessary inert approval prior to submitting an application to register a pesticide product containing that inert ingredient**. Some inert ingredients are no longer approved for food uses or certain types of uses. The name and/or CAS number on a CSF must match the name and CAS number on this web site. Simple typographical errors in the name or CAS number have resulted in processing delays.

If an inert is not listed on the inert ingredient web site and the applicant believes that the inert has been approved, the applicant should contact the Inert Ingredient Assessment Branch (IIAB) at inertsbranch@epa.gov and resolve the issue. Copies of the correspondence with IIAB resolving the issue should accompany the application. All new inerts except PIP inerts are reviewed by IIAB. The IIAB should also be contacted for any questions on what supporting data needs to be submitted for and the Agency's inert review process. Questions on PIP inerts should be directed to the Chief of Microbial Pesticides Branch [Link to http://www.epa.gov/opbpbpd1/biopesticides/contacts_bppd.htm].

When a brand, trade, or proprietary name of an inert ingredient is listed on a CSF, additional information such as an alternate name of the inert, CAS number or other information [link to <http://www.epa.gov/opprd001/inerts/tips.pdf>] must also be included to enable the Agency to determine if it has been approved. Each component of an inert mixture (including a fragrance) must be identified. In some cases, the supplier of the mixture or fragrance may need to provide this information to the Agency. Prior to the Agency's receipt of an application, applicants must arrange with a proprietary mixture or fragrance supplier to provide the component information to the Agency or promptly upon EPA's request. If the inert ingredients in a proprietary blend (including fragrances) cannot or are not identified or provided within the 21-day content review period, the Agency will reject the application.

During the 21 day content review, applicants should submit information to the individual identified by the Agency when the applicant is informed of an unapproved inert.

Unapproved Inerts Identified on CSFs

All applications except conventional new products and PIPs

Once an unapproved inert is identified on a CSF, the Agency will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If this option is selected and implemented, the Agency may request an extension in the PRIA decision review timeframe to accommodate the inert review/approval process;

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of these options is selected and implemented by the applicant within the 21 day content review period, the Agency will reject the application and retain 25% of the full fee of the category identified.

Conventional New Product Applications

When the Registration Division identifies an unapproved inert on a CSF with an application for a new product that the applicant has not identified as requiring an inert approval (R311, R312 or R313), it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the inert's identity or CAS number, providing documentation that the inert has been approved, or removing the unapproved inert from the CSF or replacing it with one that is approved for the application's uses; or
2. Submit the information and data needed for the Agency to approve the unapproved inert, including any required petition to establish or amend a tolerance or exemption from a tolerance. (This option may change the PRIA category for the application, which could require a longer decision review time and a larger fee. If additional fees are due, they must be received by the Agency within the 21 day content review period.)
3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21-day content-review period, the Agency will reject the application and retain 25% of the appropriate fee for the new product-inert approval category.

PIP Applications

When the Biopesticide and Pollution Prevention Division identifies an unapproved inert on a PIP CSF and a request to approve the inert does not accompany the application, it will contact the applicant with the following options:

1. Correct the application by, for instance, correcting the spelling or name of the inert to that in 40 CFR 174, or providing documentation that the inert has been approved; or
2. Submit the information and data needed for the Agency to approve the unapproved inert. If an inert ingredient tolerance exemption petition is required, the petition must be received by the Agency and the B903 fee paid within the 21 day period. If this option is selected and implemented, the Agency will discuss harmonizing the timeframe for both actions.

3. Withdraw the application (the Agency retains 25% of the full fee for the fee category estimated); or

If none of the above options is selected and implemented during the 21 day content review period, the Agency will reject the application and retain 25% of the fee.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Biopesticide applicants are advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.

Fee for Service

{9134832~

This package includes the following

- ☒ New Registration
- ☐ Amendment

☒ Studies? ☐ Fee Waiver?

☐ volpay % Reduction: ____

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr. **23**

Receipt No.

S-

913483

EPA File Symbol/Reg. No.

9468-UA

Pin-Punch Date:

3/16/2012

☐ This item is NOT subject to FFS action.

Action Code:

Requested: **2300**

Granted: **2300**

Amount Due: \$ **1434**

Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: S. Hill

Date: 3/19/12

Remarks:

R 300 and 301

100% identical (repack): YES or (NO) (circle one)

{If **yes**, it's a 100% repack - then product chemistry, acute toxicity and efficacy data are not required}

Data on Group and A and B must be submitted - Group A and B can not be cited.

Guideline No.	Group A: Product Chemistry Data Study Title	Data submitted	
		Yes	No
830.1550	Product Identity & Composition	✓	
830.1600	Description of materials used to produce the product	✓	
830.1650	Description of formulation process	✓	
830.1670	Discussion on the formation of impurities	✓	
830.1700	Preliminary analysis	✓	
830.1750	Certified limits (158.345)	✓	
830.1800	Enforcement analytical method	✓	

Guideline No.	Group B: Product Chemistry Data Study Title	Data submitted	
		Yes	No
830.6302	Color	✓	
830.6303	Physical State	✓	
830.6304	Odor	✓	
830.6314	Oxidation/Reduction (Chemical incompatibility)	✓	
830.6315	Flammability	✓	
830.6316	Explodability	✓	
830.6317	Storage stability	✓	
830.6319	Miscibility	✓	
830.6320	Corrosion Characteristics	✓	
830.6321	Dielectric Breakdown voltage	✓	
830.7000	pH	✓	
830.7100	Viscosity	✓	
830.7300	Density	✓	

R 300 and 301

New products must provide a bridging rationale document. The bridging document directs OPP to use a currently registered set of 6 acute toxicity data and label; instead of submitting product specific data.

Guideline No.	Acute toxicity (6 pack) Study Title	Cited	
		Yes	No
870.1100	Acute Oral (LD50)	✓	
870.1200	Acute Dermal (LD50)	✓	
870.1300	Acute Inhalation (LC50)	✓	
870.2400	Acute Eye Irritation	✓	
870.2500	Acute Dermal Irritation	✓	
870.2600	Dermal Sensitization	✓	

Efficacy – which guideline depends on the proposed label use and they must cite the data to be used for the bridging rationale.

Guideline No.	Efficacy Study Titles	Cited		Comments
		Yes	No	
810.3100	Soil Treatments for Imported Fire Ants			
810.3200	Livestock, Poultry, Fur and Wool-Bearing Animal Treatments			
810.3300	Treatments to Control Pests of Humans and Pets			
810.3400	Mosquito, Black Fly, and Biting Midge (Sand Fly) Treatments			
810.3500	Premises Treatments			
810.3600	Structural Treatments			
810.3800	Methods for Efficacy Testing of Termite Baits			

Receipt for Section 3

S: 913483

Resubmission: ☐ Yes ☒ No

Regulatory Type: Product Registration - Section 3

Fee For Service: ☒ Yes ☐ No

Application Type: New Registration

Billable: ☒ Yes ☐ No

Company: 9468 RITTER CHEMICAL, LLC

V

Risk Manager: Registration Division, Risk Management Team 23

Product #: 9468 UA Product Name: DICTATOR

Override:

Me Too Section3: 228-379 Me Too Product Name: DIABLO HERBICIDE

Application Date: 29-Feb-2012

OPP Rec'd Date: 16-Mar-2012

Front End Date: 16-Mar-2012

Risk Manager Send Date:

FFS Due Date:

Negotiated Due Date:

OPP Target Date:

Fast Track: ☐

New Ingredient: ☐

Receipt Description:

Application for registration of a new product

Form A: ☐

Signature Date:

Form B: ☐

New Ingredient

Request Date:

New Ingredient

Received Date:

Signature Date:

Print Letter

Enter More Information

Tracking

Receipt Content

Study

CSF

View/Edit

Leanne Pruett

From: paygovadmin@mail.doc.twai.gov
Sent: Wednesday, February 29, 2012 11:27 AM
To: Leanne Pruett
Subject: Pay.Gov Payment Confirmation

THIS IS AN AUTOMATED MESSAGE. PLEASE DO NOT REPLY.

Transaction Summary

Application Name: PRIA Service Fees
Pay.gov Tracking ID: 25STLNFP
Agency Tracking ID: 74287078906
Transaction Type: Sale
Transaction Date: Feb 29, 2012 11:26:55 AM

Account Holder Name: Patrice Pruett
Transaction Amount: \$1,434.00
Billing Address: 4110 136th St, NW
City: Gig Harbor
State/Province: WA
Zip/Postal Code: 98332
Country: USA
Card Type: AmericanExpress
Card Number: *****1098

Decision Number:
Registration Number:
Company Name: Ritter Chemical, LLC
Company Number: 9468
Action Code: R300

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